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MassDEP RTN 3-23246

**Partial Permanent Solution Statement
for 90-102 Washington Street,
Somerville, Massachusetts**

50 Tufts Street Site, Somerville, Massachusetts

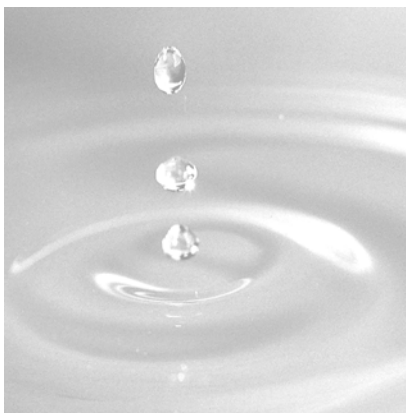
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Table of Contents

Executive Summary	iv
1. Introduction	1
1.1 Purpose	2
1.2 Scope	2
1.3 Submittals	2
1.4 Public Record	3
1.5 Contact Information	3
1.6 Conceptual Site Model	3
1.6.1 Property Location and Description	3
1.6.2 Contaminant Distribution	4
1.6.3 Site Conditions	4
1.6.4 Receptors and Potential Exposure Pathways	5
1.6.5 Ecological Exposure Potential	5
2. Property Investigations	6
2.1 Soil Sampling	6
2.1.1 GEI	6
2.1.2 EBI	6
2.1.3 McPhail	7
2.2 Groundwater Sampling	7
2.2.1 GEI	7
2.2.2 EBI	9
2.2.3 McPhail	9
2.3 Irrigation Water Sampling	9
3. Evaluation of Vapor Intrusion Pathway	10
4. Method 1 Risk Characterization	11
4.1 Current and Reasonably Foreseeable Site Activity and Use	12
4.2 Potential Human Receptors	12
4.3 Potential Environmental Receptors	12
4.4 Summary of Analytical Results	12
4.4.1 Soil	12
4.4.2 Groundwater	13
4.4.3 Hot Spot Evaluation	13
4.5 COPCs	13
4.6 Soil and Groundwater Categories	14
4.6.1 Soil Categories	14
4.6.2 Groundwater Categories	15

4.7	Identification of EPCs	15
4.7.1	Soil EPCs	15
4.7.2	Groundwater EPCs	16
4.8	Comparison of EPCs to MCP Standards	16
4.9	Characterization of Risk of Harm to Safety	16
4.10	Conclusions	17
5.	Representativeness Evaluation and Data Usability Assessment	18
5.1	Conceptual Site Model	18
5.2	Field and Screening Data	18
5.3	Sampling Rationale, Distribution, and Data Completeness	18
5.4	Data Usability Assessment	19
5.5	Data Usability Criteria	19
5.6	Statement of Suitability	21
6.	Partial Permanent Solution Statement	22
6.1	Operation, Maintenance, and/or Monitoring	22
7.	Limitations	23

Tables

1. Chemical Testing Results – Soil
2. Chemical Testing Results – Groundwater
3. Exposure Point Concentrations – Soil
4. Exposure Point Concentrations – Groundwater

Figures

1. Site Location Map
2. 90-102 Washington Street (Lot 1) – Portion of the Site Subject to Permanent Solution
3. Historical Explorations

Appendices

- A. MassDEP Form BWSC-104 “Permanent and Temporary Solution Statement”
- B. Public Notification Documentation
- C. Registry of Deeds Subdivision Plan

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Executive Summary

On behalf of UniFirst Corporation (UniFirst) of Wilmington, Massachusetts, GEI Consultants, Inc. (GEI) prepared this Partial Permanent Solution Statement for 90-102 Washington Street (Lot 1), Somerville, Massachusetts (the Property), which is a portion of the 50 Tufts Street site (the Site; Figs.1 and 2). The Site is identified by Massachusetts Department of Environmental Protection (MassDEP) Release Tracking Number (RTN) 3-23246. The Site Map (Fig. 2) shows the Property in relation to the Site boundary. This document provides closure for a portion of the Site under the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) and indicates that a condition of No Significant Risk (NSR) exists at the Property with respect to contaminants associated with the 50 Tufts Street Site.

A release of chlorinated volatile organic compounds (VOCs) to soil and groundwater at the Site was first reported to the MassDEP in 2002. Subsequent investigations at the Site identified chlorinated VOCs, particularly tetrachloroethylene (also called perchloroethylene [PCE]), in indoor air at 50 Tufts Street, and in groundwater and indoor air at residential and commercial properties near 50 Tufts Street.

Groundwater samples have been collected from three groundwater monitoring wells and two temporary wells at the Property. Concentrations of chlorinated VOCs in shallow groundwater monitoring wells at the Property are less than the laboratory reporting limits, MCP Method 1 GW-2 and GW-3 standards. Additionally, concentrations of chlorinated VOCs in a groundwater monitoring well located approximately 60 feet (ft) south of the Property indicates that shallow groundwater nearby the Property is less than the MCP Method 1 GW-2 standards.

The Property is located within the Site primarily due to its location over low concentrations of groundwater contamination in the deep overburden and bedrock.

Based on the following lines of evidence, GEI concludes that the vapor intrusion pathway is incomplete at the Property:

- There are no buildings at the Property.
- Residual or connected phase dense non-aqueous phase liquid (DNAPL) has not been detected at or near the Property.
- Chlorinated VOCs have not been detected above laboratory reporting limits in shallow groundwater samples collected at the Property (MW118S, EB-1, and EB-4) or near the Property (MW117S).

- PCE was generally not detected in soil above the laboratory reporting limits, and was detected in one out of 48 samples collected at the Property (MW118D) well below the MCP reportable concentration and Method 1 standards.

A Partial Permanent Solution Statement is appropriate for the Property based on the following:

- No Significant Risk: A condition of NSR to human health, safety, public welfare, and the environment exists for all receptors with No Conditions at the Property, and no remedial actions are required.
- Source Elimination and Control: There are no unpermitted releases of oil or hazardous material (OHM) at the Site, and the sources of OHM at the Site are eliminated to the extent feasible and are controlled.
- Migration Control: The groundwater and soil vapor plumes at the Site are stable.
- NAPL: Visible NAPL has not been observed at the Site, and any DNAPL that may be present is not migrating and exists in a stable configuration. The Phase III for the Site demonstrated that it is not feasible to eliminate DNAPL.
- An Activity and Use Limitation (AUL) is not required to maintain a condition of NSR at the Property and a GW-2 condition is not necessary.

1. Introduction

On behalf of UniFirst Corporation (UniFirst) of Wilmington, Massachusetts, GEI Consultants, Inc. (GEI) of Woburn, Massachusetts prepared this Partial Permanent Solution Statement for 90-102 Washington Street (Lot 1), Somerville, Massachusetts (the Property), which is a portion of the 50 Tufts Street site (the Site; Figs. 1 and 2). The Site includes 50 Tufts Street, surrounding residential and commercial properties to the east and immediately west of 50 Tufts Street, and the Michael E. Capuano Early Childhood Center (Capuano Center). The Site Map (Fig. 2) that shows the Property in relation to the Site boundary. Chlorinated volatile organic compounds (VOCs), particularly tetrachloroethylene (also called perchloroethylene [PCE]), have been detected in soil, groundwater (shallow and deep overburden, and bedrock), soil vapor, and indoor air at portions of the Site.

This document provides closure for the Property, which is a portion of the Site under the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) and indicates that a condition of No Significant Risk (NSR) exists at the Property with respect to contaminants associated with 50 Tufts Street Site.

The Site is identified by Massachusetts Department of Environmental Protection (MassDEP) Release Tracking Number (RTN) 3-23246. The Immediate Response Action (IRA) Plan associated with RTN 3-23246 was submitted to MassDEP on January 9, 2006. The Site is currently classified as Tier II. The “Phase II Comprehensive Site Assessment, Method 3 Risk Characterization, and Phase III Remedial Action Plan,” (Phase II/III) for the Site was submitted to MassDEP on July 14, 2008. The “Phase IV Remedy Implementation Plan,” (Phase IV) was submitted to MassDEP on August 10, 2009. The “Immediate Response Action Completion Report and Remedial Monitoring Report No. 11,” (IRAC Report) was submitted to MassDEP on November 13, 2009, and the “Immediate Response Action Completion Report Addendum,” was submitted to MassDEP on April 1, 2011. The “Phase IV Final Inspection Report, Remedial Monitoring Report No. 15, and Phase V Remedy Operation Status Report,” was submitted to MassDEP on August 4, 2011. GEI continues to submit semi-annual Phase V Status Reports for the Site. The most recent Status Report was submitted to MassDEP on February 2, 2023.

In May 2012, EBI Consulting (EBI) conducted an ASTM due diligence investigation at the Property on behalf of Cobble Hill Apartment Companies of Boston, Massachusetts. The due diligence investigation included the advancement of soil borings, installation of groundwater monitoring wells, and sampling and laboratory analysis of soil and groundwater. Based on the results of EBI’s investigations MassDEP issued RTN 3-31102 to the Property for the presence of semi-volatile organic compounds (SVOCs) and extractable petroleum

hydrocarbons (EPH) in soil above reportable concentrations. Subsequent investigations indicated that additional contaminants including polychlorinated biphenyls (PCBs) and non-chlorinated VOCs were present. The contaminants associated with RTN 3-31102 relate to the historical use of the Property and not the 50 Tufts Street site contamination. Chlorinated VOCs were not detected above laboratory reporting limits or reportable concentrations in soil or groundwater during the EBI investigation. EBI submitted a Phase I Initial Site Investigation (ISI) for the RTN 3-31102 in September 2013.

On September 12, 2018, McPhail Associates, LLC (McPhail) submitted a Phase II Comprehensive Site Assessment, Phase III Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives, and Temporary Solution Statement (Phase II/Phase III/ TSS) for RTN 3-31102 on behalf of Cobble Hill Center, LLC. Investigations by McPhail included the advancement of additional borings, installation of monitoring wells, and sampling and laboratory analysis of soil and groundwater. During McPhail's 2018 investigation, soil and groundwater samples were not analyzed for chlorinated VOCs based on the results from EBI's previous investigation.

1.1 Purpose

The purpose of this Partial Permanent Solution Statement, in accordance with the requirements of the MCP, is to document that a Permanent Solution has been achieved for a portion of the Site. This Permanent Solution Statement does not pertain to contaminants associated with RTN 3-31102, which have been addressed separately by McPhail on behalf of Cobble Hill Center, LLC.

1.2 Scope

The scope of this Partial Permanent Solution Statement for the Property is to:

- Provide a summary of the environmental conditions.
- Evaluate the risk to human health, safety, public welfare, and the environment at the Property.
- Demonstrate that the applicable requirements for a Permanent Solution have been achieved.

1.3 Submittals

The original MassDEP transmittal form (BWSC-104) was submitted online via eDEP and a copy is included in Appendix A. As required by the MCP (310 CMR 40.1403(3)(f)), GEI submitted letters to the Somerville Chief Municipal Officer and the Board of Health notifying them of the availability of this Partial Permanent Solution Statement. GEI also

provided a copy of the Permanent Solution to the owner of the Property (the City of Somerville). Copies of the notification letters are in Appendix B.

1.4 Public Record

Documents related to the environmental investigations conducted at the Site are on file with the MassDEP Northeast Regional Office located at 205B Lowell Street in Wilmington, Massachusetts. Records are accessible online at the MassDEP Searchable Sites database (<https://eeaonline.eea.state.ma.us/portal#!/search/wastesite>). Additionally, local public document repositories have been established at the Somerville Central Public Library and at the City of Somerville Clerk's Office.

1.5 Contact Information

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1.6 Conceptual Site Model

GEI developed this Conceptual Site Model (CSM) to describe release mechanisms, contaminant distribution, and potential exposure pathways associated with the Property. The CSM is based upon the investigation data documented in GEI's Phase II/III and IRAC Report, and EBI's Phase I ISI report. Site features associated with the CSM are shown in Fig. 2 and Fig. 3.

1.6.1 Property Location and Description

The Property is located within the Site boundary associated with a release of chlorinated VOCs to soil and groundwater at 50 Tufts Street, located approximately 860 feet (ft) northwest of the Property. The Property is located in a commercial/residential zoning district and fronts Washington Street to the north, is bounded by a housing complex to the east, and New Washington Street to the south and west. There are no buildings at the Property.

The 84 Washington Street property was subdivided into two parcels in 2013 (Lot 1 and Lot 2). The Property is located on Lot 1 (with a street address of 90-102 Washington Street) and is currently a paved vacant lot. The western portion of the Property was formerly occupied by a commercial building which was demolished in August 2020 and is surrounded by fence. The Cobble Hill Apartments are located on Lot 2. A copy of the subdivision survey plan recorded at the Middlesex South Registry of Deeds is in Appendix C. A Partial Permanent Solution with No Conditions was submitted for Lot 2 in June 2016.

1.6.2 Contaminant Distribution

From approximately 1955 to approximately 2002, 50 Tufts Street was used for storage and distribution of industrial chemicals, laundry supplies, and dry-cleaning supplies. Chemicals stored at and delivered to and from 50 Tufts Street included chlorinated solvents. These chlorinated VOCs – particularly PCE, trichloroethylene (TCE), and 1,1,1-trichloroethane (TCA) – have been detected in soil, soil vapor, indoor air, and groundwater at 50 Tufts Street. A release of chlorinated VOCs to soil and groundwater at the Site was first reported to MassDEP in 2002.

PCE was detected at low concentrations (0.233 milligrams per kilogram [mg/kg]) in soil at the Property during the installation by GEI of MW118D at a depth of 10 to 12 ft.

Chlorinated VOCs have been detected at the Site in the shallow and deep overburden and bedrock groundwater. Shallow groundwater samples for chlorinated VOCs have been collected from three groundwater monitoring wells located at the Property (MW118S, EB-1, EB-4) and one shallow monitoring well located approximately 60 ft south of the Property (MW117S). Although MW117S is not located at the Property, it is considered representative of shallow groundwater conditions because of its close proximity to the Property. Based on the concentrations of chlorinated VOCs in groundwater in MW118S, EB-1, EB-4 and MW117S, the concentration of PCE in shallow groundwater at the Property is less than the laboratory reporting limit of 1 microgram per liter (µg/l).

The eastern boundary of the Site is based on the lateral extent of the deep overburden and bedrock groundwater plumes, where very low concentrations of PCE have been detected in groundwater collected from wells in till and bedrock (Fig. 2). The Property is located within the Site primarily due to its location over low concentrations of groundwater contamination in the deep overburden and bedrock.

1.6.3 Site Conditions

As presented in Phase V submittals for the Site, an evaluation of the Monitored Natural Attenuation (MNA) program indicates that the groundwater plumes are stable, overall groundwater concentrations of chlorinated VOCs are not increasing, and natural attenuation

processes are occurring at the Site which will likely reduce contaminant concentrations in groundwater over time. Previous investigations have also demonstrated that soil vapor plumes are stable.

Visible NAPL has not been observed at the Site, and any DNAPL that may be present is not migrating and exists in a stable configuration. The Phase III demonstrated that it is not feasible to eliminate DNAPL at the Site. There are no unpermitted releases of oil or hazardous material (OHM) at the Site. Accordingly, all sources of OHM at the Site have been eliminated or controlled to the extent feasible.

1.6.4 Receptors and Potential Exposure Pathways

There are no buildings at the Property, however, GEI understands that the City of Somerville plans to redevelop the Property with a municipal building. Potential exposure pathways at the Property based on the distribution of contaminants include:

- Ingestion and dermal contact with soil and inhalation of soil derived fugitive dust by a future commercial worker, resident, trespasser, visitor, emergency utility worker, and construction worker if the Site is redeveloped.
- Chlorinated VOCs have not been detected above laboratory reporting limits in shallow groundwater (less than 15 feet) at or near the Property; therefore, there is not the potential for a complete vapor intrusion pathway.

1.6.5 Ecological Exposure Potential

The Property is in an urban area, is fully developed, and would not likely represent a potentially significant terrestrial habitat. Based on the low levels of contaminants of potential concern (COPCs) associated with the Site (discussed in Section 4.5) in soil and the scarcity of open land, the Property does not provide for exposures for potential terrestrial receptors. The closest surface water bodies are the Mystic River, approximately 1 mile northeast of the Property, and the Charles River, approximately 1.7 miles south-southeast of the Property. Based on the distance to the nearest aquatic receptors and the current levels of COPCs in groundwater at the Property, the transport of COPCs in groundwater to surface water and sediment is not considered to be a significant exposure pathway.

2. Property Investigations

Since March 2006, GEI has conducted subsurface investigations that included collecting soil, groundwater, soil vapor, and indoor air samples across the Site for laboratory testing. Additionally, subsurface investigations have been conducted at the Property by EBI between May 2012 and April 2014 and McPhail in August 2018. The subsurface investigations performed by EBI and McPhail were conducted as part of due diligence and MCP Phase I and II activities for RTN 3-31102.

In September 2013, EBI prepared a Phase I ISI based on data collected in May 2012. In September 2018, McPhail prepared a Phase II Comprehensive Site Assessment, Phase III Remedial Action Plan, and Temporary Solution Statement.

The investigations that are representative of conditions at the Property are summarized below. The laboratory reports associated with the majority of these investigations have been submitted to MassDEP under previous submittals and are not re-presented in this report.

2.1 Soil Sampling

2.1.1 *GEI*

Soil sample B118D-S2 (10 to 12 ft) was collected during the installation of monitoring well MW118D by GEI in June 2007. PCE was detected at a low concentration (0.233 milligrams per kilogram [mg/kg]) that is well below the applicable MCP Reportable Concentration and Method 1 Standard for residential exposure (1 mg/kg). Benzene was detected at a concentration above the laboratory reporting limit, but below the Method 1 Standard, and benzene is not related to the Site.

Soil sample B117D-S2 (8 to 10 ft) was collected during the installation of monitoring well MW117D. Naphthalene was detected at a low concentration but is not related to the Site.

GEI submitted these samples to Accutest for VOC analysis by EPA Method 8260B. The laboratory testing results for these soil samples are summarized in Table 1.

2.1.2 *EBI*

In May 2012, EBI advanced six soil borings (EB-1 through EB-6) at depths ranging from 4 ft to 12 ft bgs. One soil sample was collected from each boring. In February 2014, EBI advanced twelve soil borings (EB-301 through EB-312) and seven test pits (TP-01 through TP-07). Soil samples from the borings were collected at depths ranging from 0 to 15 ft bgs.

Soil samples from the test pits were collected at depths ranging from 0 to 8.5 ft bgs. In May 2014, EBI advanced eight soil borings (EB-501 through EB-508) and two soil samples were collected from each boring at depths of 0 to 2 ft and 2 to 4 ft.

EBI also advanced borings EB-202 through EB-208 and EB-401 through EB-406, samples collected from these borings were not analyzed for VOCs and are not discussed further in this report.

EBI submitted the samples collected from EB-1 through EB-6, EB-301 through EB-312, and TP-01 through TP-07 to Accutest for VOC analysis by EPA Method 8260, SVOC analysis by EPA Method 8270, PCBs by EPA Method 8082, total petroleum hydrocarbons (TPH) by Method 8100, and RCRA 8 Metals by Method 8010C. EBI submitted the samples collected from EB-501 through EB-508 to Contest Analytical Laboratory (Contest) of East Longmeadow, Massachusetts for analysis of VOCs, polycyclic aromatic hydrocarbons (PAHs), and PCBs.

Chlorinated VOCs were not detected above the laboratory reporting limit in any of these samples. The locations of EBI's borings and test pits are on Fig. 3. The laboratory testing results for VOCs associated with these soil samples are summarized in Table 1.

2.1.3 McPhail

In October 2012, McPhail advanced twelve geotechnical soil borings (B-1 through B-12). Three of the borings B-1(OW), B-8(OW), and B-11(OW) were completed as groundwater monitoring wells. In August 2018, McPhail advanced eight soil borings (B-603, B-604, B-605, B-606, B-607, B-608, B-609 and B-611). One of the borings was completed as a groundwater monitoring well (B-608(OW)). Soil samples were not analyzed for chlorinated VOCs; therefore, data from the McPhail investigation are not included in this report. The locations of McPhail's borings are on Fig. 3.

2.2 Groundwater Sampling

2.2.1 GEI

GEI collected groundwater samples from monitoring wells located on the Property (MW118S, MW118T and MW118D) and approximately 60 ft south of the Property (MW117S, MW117T and MW117D).

Twenty-three groundwater samples have been collected from MW118S, 24 groundwater samples have been collected from MW118T and 36 groundwater samples have been collected from MW118D (including one duplicate sample collected during the October 2009 sampling event), between July 2007 and November 2022. Twenty-three groundwater

samples have been collected from MW117S, MW117T, and MW117D between July 2007 and April 2022. The groundwater samples were submitted to Accutest Laboratories (Accutest) of Marlborough, Massachusetts or Alpha Analytical (Alpha) of Westborough, Massachusetts, for analysis of VOCs by U.S. Environmental Protection Agency (EPA) Method 8260B. The laboratory testing results for groundwater samples collected from MW118S, MW118T, MW118D, MW117S, MW117T, and MW117D are summarized in Table 2.

Monitoring well MW118S is a shallow well screened between 3 and 14 ft below ground surface (ft bgs). Chlorinated VOCs were not detected above laboratory reporting limits in groundwater samples collected from monitoring well MW118S. PCE was detected in July 2007 and April 2015, and April 2017 at estimated concentrations below the laboratory reporting limits. Acetone and 4-isopropyltoluene were sporadically detected, but these compounds are not related to the Site.

Monitoring well MW118T is a deep overburden well screened between 39.5 and 49.5 ft bgs. The following compounds were detected above laboratory reporting limits in at least one groundwater sample collected from MW118T: Acetone, 1,1- DCA, 4-isopropyltoluene, methyl tert-butyl ether (MTBE), PCE and vinyl chloride. 1,1dichloroethylene, cis-1,2-dichloroethylene (DCE) and TCE also were detected at estimated concentrations below laboratory reporting limits. Acetone, 4-isopropyltoluene, and MTBE are not compounds related to the Site.

Monitoring well MW118D is a bedrock well screened between 70 and 80 ft bgs. The following compounds were detected above laboratory reporting limits in at least one groundwater sample collected from MW118D: Chloroethane, 1,1- DCA, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, MTBE, PCE, TCE and vinyl chloride. Benzene, carbon disulfide, 4- Isopropyltoluene, naphthalene and toluene were also detected at estimated concentrations below laboratory reporting limits, but these compounds, and MTBE, are not related to the Site.

Monitoring well MW117S is a shallow well screened between 5 and 20 ft bgs. Chloroform was detected above the laboratory reporting limit in April 2012. Chloroform is not related to the Site. No other analytes were detected above laboratory reporting limits in groundwater samples collected from MW117S.

Monitoring well MW117T is a deep well screened between 35 to 45 ft bgs in glacial till. PCE was detected above the laboratory reporting limit one time in April 2019. No other chlorinated VOCs were detected above laboratory reporting limits in groundwater samples collected from monitoring well MW117T. MTBE was detected at low concentrations but is not related to the Site.

Monitoring well MW117D is a deep well screened between 60 to 70 ft bgs in glacial till. Chlorinated VOCs were not detected above laboratory reporting limits in groundwater samples collected from monitoring well MW117D. Acetone, carbon disulfide, chloroform, and MTBE were detected at low concentrations, but are not related to the Site.

2.2.2 EBI

In May 2012, EBI installed two temporary wells at the Property (EB-1 and EB-4, advanced to 12 ft and 16 ft, respectively). One sample from each well was submitted to Accutest for analysis of VOCs, extractable petroleum hydrocarbon (EPH) with target analytes, and volatile petroleum hydrocarbon (VPH) with target analytes. Acetone, n-butylbenzene, chlorobenzene, isopropylbenzene, and n-propylbenzene were detected above laboratory reporting limits, but below Method 1 standards. These compounds are also not related to the Site. No Site-related analytes were detected above of the laboratory reporting limits in these samples. The laboratory testing results are summarized in Table 2.

2.2.3 McPhail

In August 2018, McPhail conducted a Phase II subsurface investigation at the Property that included sampling two groundwater monitoring wells, B-2 (OW) and B-608 (OW). The samples were submitted for analysis of EPH, PCBs and VPH. They were not analyzed for chlorinated VOCs; therefore, data from the McPhail investigation are not included in this report.

2.3 Irrigation Water Sampling

On June 25, 2007, GEI collected a water sample from the irrigation system at the Cobble Hill Apartments located at 84 Washington Street. Water for the irrigation system is supplied by a bedrock irrigation well (Fig. 2) located on the southern portion of 84 Washington Street, abutting the Property to the southeast. According to information obtained from Mr. Bob Keene of Corcoran Jennison Management, LLC, the management company for the Cobble Hill Apartments, the well is approximately 300 ft deep, and bedrock was encountered at 76 ft bgs during drilling. Only low concentrations of acetone and chloroform were detected above laboratory reporting limits in the June 2007 irrigation system sample. Because the June 2007 irrigation system sample was not collected from a traditional monitoring well, and because there is limited information on the irrigation well construction, the analytical results for the June 2007 irrigation system sample are considered only to be a general indicator of deep groundwater conditions near the southeastern portion of the Property. The laboratory testing results for the irrigation well groundwater sample (COBBLE-IR-1) are summarized in Table 2.

3. Evaluation of Vapor Intrusion Pathway

All pertinent data were reviewed and considered to evaluate the potential for a complete vapor intrusion pathway on the Property. There are no buildings at the Property, however, GEI understands that the City of Somerville intends to redevelop the Property with a municipal building. Based on the following lines of evidence, there is no such complete vapor intrusion pathway for the chlorinated VOCs associated with the 50 Tufts Street disposal site, and there is unlikely to be a complete vapor intrusion pathway for these contaminants at the Property in the future:

- Chlorinated VOCs have not been detected above laboratory reporting limits in shallow groundwater (less than 15 feet) at or near the Property (MW118S, MW117S, EB-1, and EB-4).
- Chlorinated VOCs have only been detected above laboratory reporting limits in groundwater samples collected at depths greater than 40 feet.
- PCE was generally not detected in soil above the laboratory reporting limits, and was detected in one out of 48 samples collected at the Property (MW118D) well below the MCP reportable concentration and Method 1 standards. The low concentrations detected in soil in MW118D are not considered to pose a risk of vapor intrusion at the Property.
- Residual or connected phase DNAPL has not been detected at or near the Property, and DNAPL detected elsewhere on the Site is in a stable configuration and is not migrating.

4. Method 1 Risk Characterization

Five Site-wide Method 3 Risk Characterization Reports were previously prepared for the Site. The July 2008 Phase II/Phase III included a Method 3 Risk Characterization for the Site, prepared by AMEC Earth & Environmental (AMEC) of Westford, Massachusetts. In response to MassDEP comments, AMEC prepared a Supplemental Method 3 Risk Characterization (Supplemental Risk Characterization) in May 2009. The Supplemental Risk Characterization evaluated potential risks using the framework in the July 2008 Method 3 Risk Characterization, including an indoor air Exposure Assessment for each affected residence without an effective Exposure Pathway Mitigation Measure (EPMM). A Revised Supplemental Risk Characterization was prepared to support the IRAC Report. Potential risks presented in the Supplemental Risk Characterization were updated in the Revised Supplemental Risk Characterization to reflect additional data collection and additional EPMMs installed by GEI. An Updated Revised Supplemental Risk Characterization was prepared in April 2011 to respond to a MassDEP Notice of Audit Findings and Notice of Noncompliance for the IRAC Report. An Updated Method 3 Risk Characterization was prepared by ARCADIS U.S., Inc. of Chelmsford, Massachusetts in August 2015 to incorporate updated MassDEP toxicity information for PCE and TCE.

Based on all lines of evidence, there is not a complete vapor intrusion pathway at the Property. Accordingly, a Method 1 Risk Characterization was completed for the Property (90-102 Washington Street (Lot 1) Risk Characterization) in accordance with 310 CMR 40.0900 to support this Partial Permanent Solution Statement. A Method 1 Risk Characterization evaluates foreseeable Site uses, potential receptors, COPCs, and exposure point concentrations (EPCs), and compares EPCs detected in soil and groundwater to MassDEP-derived standards. If the EPCs in soil and groundwater are less than the applicable Method 1 standards then a condition of NSR of harm to human health, public welfare, and the environment exists. In accordance with 310 CMR 40.0971(5), a separate characterization of the risk of harm to safety was also conducted.

GEI only considered Site COPCs as part of the risk characterization. A Method 1 Risk Characterization was appropriate for the Property because; 1) COPCs have not been detected at or near the Property in media other than soil and groundwater; 2) MCP standards exist for the COPCs detected at or near the Property; and 3) COPCs are not considered by MassDEP to bioaccumulate.

4.1 Current and Reasonably Foreseeable Site Activity and Use

Consistent with the requirements of the MCP (310 CMR 40.0923), the 90-102 Washington Street (Lot 1) Risk Characterization considered both current and future uses of the Property. There are no buildings at the Property, and the Property is fenced and occasionally used by the City of Somerville for snow and heavy equipment storage. GEI understands that the City of Somerville intends to redevelop the Property with a municipal building; therefore, the reasonably foreseeable uses of the Property is commercial. However, residential future use cannot be precluded.

4.2 Potential Human Receptors

Potential human receptors were identified based on current and foreseeable uses of the Property. Current use receptors at the Property are City workers and trespassers. Future use receptors of the Property are future residents, municipal workers, and construction workers during potential future excavation/development activities.

4.3 Potential Environmental Receptors

The Property is in an urban area, the surrounding area is fully developed, and would not likely represent a potentially significant terrestrial habitat. Based on the low levels of COPCs in accessible surface soils and the scarcity of open land, the Property does not provide for exposures for potential terrestrial receptors.

The closest surface water bodies are the Mystic River, located approximately 1 mile northeast of the Property, and the Charles River located approximately 1.7 miles south-southeast of the Property. Based on the distance to the nearest aquatic receptors and the current levels of COPCs in groundwater, the transport of COPCs in groundwater to surface water and sediment is not considered to be a significant exposure pathway.

4.4 Summary of Analytical Results

The environmental conditions at the Property have been characterized based on data collected in the immediate vicinity of the Property, as described in Section 2.

4.4.1 Soil

PCE was detected at 0.233 mg/kg, which is just above the laboratory reporting limit, in the soil sample collected during the installation of MW118D, located on the Property (Table 1).

Chlorinated VOCs were not detected in any other soil samples collected from the Property. Chlorinated VOCs were also not detected in the soil sample collected during installation of MW117D, located approximately 60 ft southwest of the Property.

For purposes of this risk characterization, we have conservatively considered the COPC soil concentrations in the soil sample collected from MW118D (B118D-S2) to be representative of soil at the Property.

4.4.2 Groundwater

We reviewed and evaluated groundwater data for use in the Method 1 Risk Characterization to identify potential exposure points and derive EPCs based on the relevant groundwater categories identified for the Property. Groundwater data included in the Method 1 Risk Characterization are from the monitoring wells located on the Property (MW118S, MW118T, MW118D, EB-1 and EB-4), and approximately 60 ft southwest of the Property (MW117S, MW117T, and MW117D), and are in Table 2.

Although MW117S is located just beyond the disposal site boundary, it is considered representative of groundwater conditions because of its proximity to the Property.

Because the July 2007 irrigation water sample was not collected from a traditional groundwater monitoring well, the laboratory analytical results associated with the irrigation water sample are not quantitatively considered in the risk characterization. However, they provide a qualitative indicator of deeper groundwater conditions near the southeastern portion of the Property.

4.4.3 Hot Spot Evaluation

Under the MCP (310 CMR 40.0924), hot spots must be considered as distinct exposure points. A hot spot is defined as a discrete area where the concentrations of OHM are substantially higher than those concentrations in the surrounding area. No “hot spots” have been identified at the Property.

4.5 COPCs

The following VOCs were detected above laboratory reporting limits in at least one groundwater sample collected from monitoring wells MW118S, MW118T, MW118D, MW117S, MW117T, MW117D, EB-1 and EB-4: Acetone, n-butylbenzene, carbon disulfide, chlorobenzene, chloroethane, chloroform, 1,1- DCA, 1,1 -DCE, cis-1,2-DCE, trans-1,2-DCE, , MTBE, 4- Isopropyltoluene, isopropylbenzene, n-propylbenzene, PCE, TCE, and vinyl chloride. Benzene, carbon disulfide, naphthalene, and toluene were also detected at estimated concentrations below laboratory reporting limits.

The following VOCs were detected above laboratory reporting limits in at least one soil sample collected during the installation of MW118D, MW117D, and the EBI soil samples: acetone, benzene, n-butylbenzene, carbon disulfide, chlorobenzene, chloroethane 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, naphthalene, n-propylbenzene, PCE, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and xylenes. Methylene chloride and toluene were detected at estimated concentrations below the laboratory reporting limit.

The COPCs at the Site have been limited to certain chlorinated solvents, together with their associated breakdown products which are associated with the releases of OHM at 50 Tufts Street. Certain non-chlorinated VOCs have been detected in groundwater and soil at higher concentrations in borings and monitoring wells not on the 50 Tufts Street property. These compounds are not considered to be associated with the releases of OHM at 50 Tufts Street; therefore, they are not COPCs at the Site and are not evaluated further in this risk characterization for the Property.

COPCs were not detected in groundwater samples collected from monitoring wells MW118S, MW117S, MW117D, EB-1 and EB-4 above laboratory reporting limits. The COPCs cis-1,2-DCE, 1,1-DCA, PCE, TCE, and vinyl chloride were detected in at least one sample collected from MW118T, MW118D, and MW117T. PCE was the only COPC detected in soil sample B118D-S2.

4.6 Soil and Groundwater Categories

This section identifies and documents the applicable soil and groundwater categories, as described in the MCP (310 CMR 40.0930). The soil and groundwater categories are considered general indicators of the potential for exposure to OHM.

4.6.1 Soil Categories

Under the MCP, soil can be classified into one of three categories (S-1, S-2, or S-3). Category S-1 soil represents the highest potential exposure because it assumes unrestricted use of the soil (i.e., residential), whereas category S-3 soil represents the lowest potential for exposure. Under current conditions the Property is fenced and occasionally used by the City of Somerville for snow and heavy equipment storage. Users of the parking lot are considered to have low frequency and low intensity contact with soil at the Property. Soil at the Property is also currently below pavement. Therefore, soil located from 0 to 15 ft bgs is categorized as S-3.

However, for purposes of this risk characterization, all soil from 0 to 15 ft bgs at the Property is characterized as S-1 to evaluate risk under potential future unrestricted use (i.e., residential).

4.6.2 Groundwater Categories

The MCP identifies three groundwater categories which correspond to the following three distinct types of exposures:

- **Groundwater Category GW-1** applies to groundwater assumed to be a current or future source of drinking water.
- **Groundwater Category GW-2** applies to groundwater considered to be a potential source of vapors that could migrate through the soil and concentrate in indoor air of existing, occupied buildings. GW-2 is defined as groundwater located within 30 ft of an existing or planned building or structure that is or will be occupied, and the average annual depth to groundwater in that area is 15 ft or less.
- **Groundwater Category GW-3** applies to groundwater that is assumed to discharge to surface water. All groundwater in the Commonwealth is classified as GW-3.

Because the exposures are not necessarily related to each other, they are not mutually exclusive. Therefore, more than one category may be applicable to a site and/or different areas of a site.

Groundwater beneath the Property is not located within a current or potential drinking water source area. The depth to groundwater in MW118S ranges between 4 to 11 ft bgs, and the depth to groundwater identified in monitoring wells during the EBI investigation ranged between 8 to 11 ft bgs.

Therefore, we have considered depth to groundwater at the Property to be less than 15 ft bgs. Based on this information, the applicable groundwater category for the Property is currently GW-3. Under foreseeable future uses, given the planned redevelopment of the property for use as a municipal building, the applicable groundwater category for the Property would be GW-2 and GW-3.

4.7 Identification of EPCs

The MCP requires that the estimation of EPCs be representative of actual and foreseeable exposures.

4.7.1 Soil EPCs

PCE was only detected at a low concentration in one soil sample included in the risk characterization data set (B118D-S2). As a conservative measure, we identified the maximum COPC concentration of PCE in B118D-S2 as the soil EPC (Table 3).

4.7.2 Groundwater EPCs

For a Method 1 Risk Characterization, and in accordance with 310 CMR 40.0924, “the groundwater EPC shall be the groundwater resource itself, as measured at each wellhead...” Therefore, the maximum groundwater concentrations for each COPC in monitoring wells MW118S, MW118T, MW118D, MW117S, MW117T, MW117D, EB-1 and EB-4 were identified as EPCs (Table 4). Conservatively, GEI included concentrations of COPCs that were estimated at values less than the laboratory reporting. The locations of groundwater monitoring wells MW118S, MW118T, MW118D, MW117S, MW117T, MW117D, EB-1 and EB-4 are shown in Fig. 2.

4.8 Comparison of EPCs to MCP Standards

A condition of NSR of harm to health, public welfare, and the environment exists if the EPCs are less than the lowest applicable MCP soil or groundwater standard.

For groundwater, the EPCs were identified and compared to applicable Method 1 GW-2 and GW-3 groundwater standards (Table 4). Based on the depth from which the groundwater samples were collected from each monitoring well (3 to 14 ft bgs at MW118S and 5 to 20 ft bgs at MW117S, 39.5 to 49.5 ft bgs at MW118T and 35 to 45 ft bgs at MW117T, and 60 to 70 ft bgs at MW117D and 70 to 80 ft bgs at MW118D), the applicable Method 1 standards for comparison to MW118S and MW117S are the GW-2 (assuming a future building) and GW-3 standards, and the applicable Method 1 standards for comparison to MW118T, MW117T, MW118D, and MW117D are the GW-3 standards. The depth of groundwater samples collected from EB-1 and EB-4 is unknown, but based on the boring log information for maximum depth (16 ft), we have assumed the samples were collected from within 15 ft, and, therefore, the applicable Method 1 standards are the GW-2 (assuming a future building) and GW-3 standards. The results of this comparison show that the groundwater EPCs for all COPCs are below the applicable Method 1 standards. Therefore, a condition of NSR of harm to health, public welfare and the environment exists at the Property.

For soil, the EPC was identified and compared to applicable Method 1 S-1 soil standards (Table 3). The results of this comparison show that the soil EPCs for the COPCs detected (PCE and TCA) are below the Method 1 standards. Therefore, a condition of NSR of harm to health, public welfare and the environment exists at the Property.

4.9 Characterization of Risk of Harm to Safety

In accordance with the MCP (310 CMR 40.0971(5)), a separate characterization of risk of harm to safety was also conducted in accordance with 310 CMR 40.0960. There are no rusted or corroded drums or containers, open pits, lagoons, or other dangerous structures at

the Property; there is no threat of fire or explosion at the Property; and there are no uncontained materials which exhibit the characteristics of corrosivity, reactivity, or flammability at the Property. Therefore, a condition of NSR of harm to safety exists at the Property.

4.10 Conclusions

The Method 1 Risk Characterization for the Property concluded:

- A condition of NSR to health, safety, public welfare, and the environment exists for all receptors.
- No remedial actions are required.
- An Activity and Use Limitation (AUL) is not required to maintain a condition of NSR. Additionally, if the Property is redeveloped by the City of Somerville, a GW-2 condition is not necessary because concentrations of CVOCs have not been detected above the laboratory reporting limit in shallow groundwater.

Therefore, no further action is required at the Property.

5. Representativeness Evaluation and Data Usability Assessment

The purpose of a Representativeness Evaluation and Data Usability Assessment (REDUA) is to evaluate the extent to which a data set meets specific site characterization and data usability objectives. Most of the data on which this Partial Permanent Solution Statement relies were evaluated under the REDUA presented in the Phase II/III, which was submitted in July 2008. However, additional groundwater samples have been collected since the Phase II/III, and the analytical results for some of those samples are included in the data set for this Partial Permanent Solution Statement. Additionally, this Partial Permanent Solution Statement relies on data collected by EBI during investigations at the Property for RTN (3-31102). McPhail conducted additional investigations at the Property under RTN 3-31102, but did not collect either soil or groundwater samples for chlorinated VOC analysis; therefore, GEI did not include the data in risk characterization. A REDUA for these additional data is presented below. The REDUA was performed in general accordance with MassDEP Policy #WSC-07-350, “MCP Representativeness Evaluations and Data Usability Assessments,” dated September 19, 2007.

5.1 Conceptual Site Model

The CSM is presented in Section 1.6.

5.2 Field and Screening Data

Field data include physical parameter measurements made during groundwater sampling (e.g., pH, temperature, conductivity, dissolved oxygen, etc.). Field and screening data were reviewed with the associated laboratory testing reports as part of the data quality assessment.

5.3 Sampling Rationale, Distribution, and Data Completeness

Environmental samples were submitted for chlorinated VOC testing consistent with the Site history and types of chemicals stored and used at the Site. To characterize the groundwater at the Property, GEI relied on groundwater monitoring wells MW118S, MW118T and MW118D, located on the Property and monitoring wells MW117S, MW117T and MW117D, located 60 ft southwest of the Property. Over an approximately sixteen year period, 23 groundwater samples have been collected from MW118S, 24 samples have been collected from MW118T, 36 groundwater samples have been collected from monitoring well MW118D, and 223 groundwater samples have been collected from MW117S, MW117T, and MW117D. Additionally, GEI relied on data collected from temporary groundwater

monitoring wells installed at the Property by EBI in May 2012. EBI collected one groundwater sample each from EB-1 and EB-4.

Chlorinated VOCs were not detected above laboratory reporting limits in shallow groundwater at or near the Property.

To characterize soil at the Property, GEI relied on two samples collected in 2007 during the installation of monitoring wells MW117 and MW118. GEI also relied on 46 samples collected by EBI between 2012 and 2014. Except for a low concentration in one soil sample (B118D-S2), chlorinated VOCs were not detected in soil above the laboratory reporting limit.

No data associated with conditions at the Property were rejected for quality assurance/quality control reasons. Data gaps related to sample distribution or data quality were not identified. Therefore, the data set is considered 100% complete. Inconsistent data was not identified. Field screening results, and observations such as visual and olfactory observations, were consistent with laboratory testing results. There is little uncertainty associated with the data used to support this Partial Permanent Solution Statement given the number of samples collected and the locations at which they were collected. All data collected were considered representative.

5.4 Data Usability Assessment

Laboratory testing data used to support this Partial Permanent Solution Statement were generated pursuant to the MassDEP Compendium of Analytical Methods (CAM) and 310 CMR 40.1056 and meet the criteria for “Presumptive Certainty” as identified in the MassDEP Document “WSC No. 10-320: Compendium of Quality Control Requirements and Performance Standards for Selected Analytical Protocols,” dated July 1, 2010. These data also are consistent with our field observations, are representative of conditions that exist or existed at the Property, and are of a level of precision and accuracy commensurate with the preparation of this Partial Permanent Solution Statement.

5.5 Data Usability Criteria

The Precision Accuracy Representativeness Completeness Comparability and Sensitivity (PARCCS) parameters of the data were evaluated as part of our field procedures, our laboratories’ analytical protocols, and our in-house data review and validation process.

The following groundwater data for MW118S (for COPCs) obtained since the Phase II/III were qualified by the laboratory:

- In April 2009, the detection limits of all compounds, except chlorobenzene, ethylbenzene, 2-hexanone, 1,1,1,2-tetrachloroethane, PCE, and xylenes, were qualified as being estimated.
- The concentration of PCE in April 2015 and April 2017 was qualified as being estimated due to the detection being below the laboratory reporting limit.

The following groundwater data for MW118T (for COPCs) obtained since the Phase II/III were qualified by the laboratory:

- The concentration of 1,1-dichloroethane in October 2009 was qualified as being estimated.
- Concentrations of TCE in January 2008, July 2009, October 2009, April 2015, and April 2016 were qualified as being estimated due to the detection being below the laboratory reporting limit.
- In April 2012, the detection limit of vinyl chloride was qualified by an external data validator as having a high bias due to blank spike or laboratory control sample recovery above upper control limits.
- In April 2017 concentrations of 1,1-DCE, cis-1,2-DCE, and PCE were qualified as being estimated due to the detection being below the laboratory reporting limit.

The following groundwater data for MW118D (for COPCs) obtained since the Phase II/III were qualified by the laboratory:

- Concentrations of PCE in October 2009 were qualified as being estimated due to the detection being below the laboratory reporting limit.
- Concentrations of 1,1-DCE in November 2012, November 2014, April 2015, November 2016, April 2017 were qualified as being estimated due to the detection being below the laboratory reporting limit.
- Concentrations of trans- 1,2- DCE in November 2013, May 2014, April 2015, November 2016, and April 2017 were qualified as being estimated due to the detection being below the laboratory reporting limit.
- In November 2014, the concentration of 1,1-DCE and the detection limit of trans- 1,2-DCE were qualified as having a high bias due to blank spike or laboratory control sample recovery above upper control limits. The detection limit of vinyl chloride was qualified by an external data validator as having a low bias due to blank spike or laboratory control sample recovery below lower control limits. The detection limits of chloroethane, chloromethane and vinyl chloride were qualified by an external data validator as being estimated due to duplicate precision outside control limits.

The groundwater data obtained from MW117S, MW117T and MW117D since the Phase II/III were not qualified by the laboratory.

These analytical results were considered sufficiently representative of groundwater conditions in MW118S, MW118T, MW118D, MW117S, MW117T and MW117D and were included in the data set used to support this Partial Permanent Solution Statement.

In addition to reviewing our data, we reviewed the REDUA presented in McPhail's Temporary Solution Statement for RTN 3-31102 filed in September 2018, and no additional reports have been filed under this RTN. The McPhail REDUA states that sample results from soil and groundwater were considered sufficiently representative of conditions at the Property. Therefore, the applicable soil and groundwater were included in the data set to support this Partial Permanent Solution Statement.

5.6 Statement of Suitability

In summary, the data set relied upon in this Partial Permanent Solution Statement to characterize the conditions at the Property and perform a risk characterization is scientifically valid and defensible. It is of sufficient accuracy, precision, and completeness. In addition, the data set is representative of the spatial and temporal distribution of sampling points.

6. Partial Permanent Solution Statement

Based on the results of the Phase II/III prepared for the Site, and the 90-102 Washington Street (Lot 1) Risk Characterization, it is the LSP's opinion that a Partial Permanent Solution Statement is appropriate for the Property because:

- **No Significant Risk:** A condition of NSR to human health, safety, public welfare, and the environment exists for all receptors with No Conditions at the Property, and no remedial actions are required.
- **Source Elimination and Control:** There are no unpermitted releases of OHM at the Site, and the sources of OHM at the Site are eliminated to the extent feasible and are controlled.
- **Migration Control:** The groundwater and soil vapor plumes at the Site are stable.
- **NAPL:** Visible NAPL has not been observed at the Site, and any DNAPL that may be present is not migrating and exists in a stable configuration. The Phase III for the Site demonstrated that it is not feasible to eliminate DNAPL.
- **An AUL is not required to maintain a condition of NSR at the Property.** Additionally, if the Property is redeveloped by the City of Somerville, a GW-2 condition is not necessary because concentrations of CVOCs have not been detected above the laboratory reporting limit in shallow groundwater.

This Partial Permanent Solution only applies to the Property, which is a portion of the disposal site, as shown on Fig. 2.

6.1 Operation, Maintenance, and/or Monitoring

No operation, maintenance, and/or monitoring are required at the Property.

7. Limitations

The conclusions provided by GEI in this report are based solely on the information reported in this document. Additional information which was not available to GEI may result in a modification of the conclusions stated above. This report has been prepared in accordance with generally accepted hydrogeological practices. If a MassDEP audit is conducted, it is the responsibility of UniFirst Corporation, and not GEI, to respond to the MassDEP Notice of Audit Findings. No warranty, express or implied, is made.

MassDEP RTN 3-23246
Partial Permanent Solution Statement for 90-102
Washington Street, Somerville, Massachusetts
50 Tufts Street Site, Somerville, Massachusetts
UniFirst Corporation
March 30, 2023

Tables

Table 1. Chemical Testing Results - Subsurface Soil
Partial Permanent Solution Statement
90-102 Washington Street
Somerville, Massachusetts

					Location Name:		MW117D	MW118D	EB-1	EB-2	EB-3	EB-4	EB-5	EB-6	EB-301	EB-302	EB-303	EB-304	EB-305	EB-307	EB-309	EB-310	EB-311	EB-312
					Sample Name:		B117D-S2	B118D-S2	EB-1	EB-2	EB-3	EB-4	EB-5	EB-6	EB-301(0-4')	EB-302(0-4')	EB-303(0-8')	EB-304(0-5')	EB-305(0-4')	EB-307(11-15')	EB-309(0 to 4')	EB-310(0-4')	EB-311(0-4')	EB-312(0-3')
					Sample Depth (ft):		8 to 10	10 to 12	6 to 8	2 to 4	8 to 10	8 to 10	10 to 12	6 to 8	0 to 4	0 to 4	0 to 8	0 to 5	0 to 4	11 to 15	0 to 4	0 to 4	0 to 4	0 to 3
					Sample Date:		6/18/07	6/25/07	5/9/12	5/9/12	5/9/12	5/9/12	5/9/12	5/9/12	2/18/14	2/18/14	2/18/14	2/18/14	2/18/14	2/18/14	2/18/14	2/18/14	2/18/14	2/18/14
					Collected By:		GEI	GEI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI
Analyte	Method	Units	Method 1 S-1/GW-2 Standards	Method 1 S-1/GW-3 Standards																				
Volatile Organic Compounds (VOCs)	SW 8260B	mg/kg																						
Acetone ⁴			50	400	< 0.25	< 0.3	0.0659	0.0557	0.00557	<2.7	<0.32	<0.36	<0.53	0.0217	<0.0092	<2.6	<2.5	<0.55	<0.49	0.041	0.0177	<0.41		
Benzene ⁴			40	40	< 0.025	0.102	0.00085	<0.00048	<0.00059	<0.27	<0.032	<0.36	0.0332	0.00069	<0.00046	0.398	0.287	<0.027	0.0677	0.001	<0.00036	0.0227		
Butylbenzene, n-			NS	NS	< 0.25	< 0.3	<0.0045	<0.0048	<0.00059	4.04	<0.32	<0.36	<0.27	<0.0044	<0.0046	<1.3	<1.3	0.387	<0.24	<0.0037	<0.0036	<0.20		
Carbon disulfide			NS	NS	< 0.25	< 0.3	<0.0045	<0.0048	<0.00059	<2.7	<0.32	<0.36	<0.27	<0.0044	<0.0046	<1.3	<1.3	<0.27	<0.24	0.0043	<0.0036	<0.20		
Carbon tetrachloride			5	30	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.11	<0.0018	<0.0018	<0.53	<0.51	<0.11	<0.098	<0.0015	<0.0015	<0.081		
Chlorobenzene			3	100	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.11	<0.0018	<0.0018	<0.53	20.3	<0.11	<0.098	<0.0015	<0.0015	<0.081		
Chloroethane			NS	NS	< 0.25	< 0.3	<0.0045	<0.0048	<0.0059	<2.7	<0.32	<0.14	<0.27	<0.0044	<0.0046	<1.3	<1.3	<0.27	<0.24	<0.0037	<0.0036	<0.20		
Chloroform			0.2	500	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.36	<0.11	<0.0018	<0.0018	<0.53	<0.51	<0.11	<0.098	<0.0015	<0.0015	<0.081		
Dichlorobenzene, 1,2-			100	300	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.11	<0.0018	<0.0018	<0.53	2.33	<0.11	<0.098	<0.0015	<0.0015	<0.081		
Dichlorobenzene, 1,3-			100	100	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.11	<0.0018	<0.0018	<0.53	11.5	<0.11	<0.098	<0.0015	<0.0015	<0.081		
Dichlorobenzene, 1,4-			1	80	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.11	<0.0018	<0.0018	<0.53	50.7	<0.11	<0.098	<0.0015	<0.0015	<0.081		
1,1-Dichloroethane			9	500	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.11	<0.0018	<0.0018	<0.53	<0.51	<0.11	<0.098	<0.0015	<0.0015	<0.081		
1,1-Dichloroethene			40	500	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.11	<0.0018	<0.0018	<0.53	<0.51	<0.11	<0.098	<0.0015	<0.0015	<0.081		
cis-1,2-Dichloroethene			0.1	100	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.11	<0.0018	<0.0018	<0.53	<0.51	<0.11	<0.098	<0.0015	<0.0015	<0.081		
trans-1,2-Dichloroethene			1	500	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.11	<0.0018	<0.0018	<0.53	<0.51	<0.11	<0.098	<0.0015	<0.0015	<0.081		
Methylene chloride ⁴			4	400	0.0952 J B	0.126 B	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.110	<0.0018	<0.0018	<0.53	<0.51	<0.11	<0.098	<0.0015	<0.0015	<0.081		
Naphthalene ⁴			20	500	0.829	< 0.3	<0.0045	<0.0048	<0.0059	<2.7	6.77	3.48	1.42	<0.0044	<0.046	76.6	3.46	<0.27	0.542	0.0045	<0.0036	14.4		
Propylbenzene, n-			NS	NS	< 0.25	< 0.3	<0.0045	<0.0048	<0.0059	4.36	<0.32	<0.36	<0.27	<0.0044	<0.0046	<1.3	<1.3	0.318	<0.24	<0.0037	<0.0036	<0.20		
Tetrachloroethene (PCE)			10	30	< 0.1	0.233	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.11	<0.0018	<0.0018	<0.53	<0.51	<0.11	<0.098	<0.0015	<0.0015	<0.081		
Toluene ⁴			500	500	< 0.25	0.0235 J	<0.0045	<0.0048	<0.0059	<2.7	<0.32	<0.36	<0.27	<0.0044	<0.0046	<1.3	<1.3	<0.27	<0.24	<0.0037	<0.0036	<0.20		
Trichlorobenzene, 1,2,3-			NS	NS	< 0.25	< 0.3	<0.0045	<0.0048	<0.0059	<2.7	<0.32	<0.36	<0.27	<0.0044	<0.0046	<1.3	6.73	<0.27	<0.24	<0.0037	<0.0036	<0.20		
Trichlorobenzene, 1,2,4-			6	700	< 0.25	< 0.3	<0.0045	<0.0048	<0.0059	<2.7	<0.32	<0.36	<0.27	<0.0044	<0.0046	<1.3	62.4	<0.27	<0.24	<0.0037	<0.0036	<0.20		
1,1,1-Trichloroethane (TCA)			500	500	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.11	<0.0018	<0.0018	<0.53	<0.51	<0.11	<0.098	<0.0015	<0.0015	<0.081		
Trichloroethene (TCE)			0.3	30	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.11	<0.0018	<0.0018	<0.53	<0.51	<0.11	<0.098	<0.0015	<0.0015	<0.081		
Trimethylbenzene, 1,2,4-			NS	NS	< 0.25	< 0.3	<0.0045	<0.0048	<0.0059	<2.7	<0.32	<0.36	<0.27	<0.0044	<0.0046	1.58	<1.3	<0.27	<0.24	<0.0037	<0.0036	<0.20		
Trimethylbenzene, 1,3,5-			NS	NS	< 0.25	< 0.3	<0.0045	<0.0048	<0.0059	<2.7	<0.32	<0.36	<0.27	<0.0044	<0.0046	<1.3	<1.3	<0.27	<0.24	<0.0037	<0.0036	<0.20		
Vinyl chloride			0.7	1	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	<0.13	<0.14	<0.11	<0.0018	<0.0018	<0.53	<0.51	<0.11	<0.098	<0.0015	<0.0015	<0.081		
Total Xylenes			100	500	< 0.1	< 0.12	<0.0018	<0.0019	<0.0024	<1.1	0.188	<0.14	<0.11	<0.0018	<0.0018	1.82	<0.51	<0.11	0.11	<0.0015	<0.0015	0.089		
Total VOCs			NS	NS	0.829	0.335	0.06675	0.0557	0.00557	8.4	6.958	3.48	1.4532	0.02239	ND	80.398	157.707	0.705	0.7197	0.0508	0.0177	14.5117		
Other																								
Solids, Percent	1603M	%			87.1	93.8	86	87.3	79.1	82.9	90	86.5	87.2	85.3	90.1	89.1	92.5	79.1	88.9	89	89.1	91.9		
Total Organic Carbon	9060M	mg/kg			4740	9760	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	

General Notes:

- Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
- "<" = The analyte was not detected at a concentration above the specified reporting limit.
- mg/kg = milligrams per kilogram.
- Analyte is not associated with the release of chlorinated VOCs at the Site, and is therefore not a compound of potential concern (COPC). Refer to Section 4.5 of this Permanent Solution Statement.

Qualifying Notes:

- J The reported result is below the laboratory reporting limit and is estimated.
B The reported result is attributed to sampling or laboratory contamination.

Table 1. Chemical Testing Results - Subsurface Soil
Partial Permanent Solution Statement
90-102 Washington Street
Somerville, Massachusetts

Location Name: Sample Name: Sample Depth (ft): Sample Date: Collected By:					TP-01	TP-02	TP-03		TP-04		TP-05		TP-06		TP-07		TP-08		EB-501		EB-502	
					TP-01(7.5-8.5')	TP-02(2-4')	TP-03(0-4')	TP-03(7-9')	TP-04(0-4')	TP-04(6-7')	TP-05(0-4')	TP-05(7-8')	TP-06(0-4')	TP-06(6.5-7.5')	TP-07(0-4')	TP-07(6-7')	TP-08(0-4')	TP-08(4-5')	EB-501(0-2')	EB-501(2-4')	EB-502(0-2')	EB-502(2-4')
					7.5 to 8.5	2 to 4	0 to 4	7 to 9	0 to 4	6 to 7	0 to 4	7 to 8	0 to 4	6.5 to 7.5	0 to 4	6 to 7	0 to 4	0 to 4	0 to 2	2 to 4	0 to 2	2 to 4
					2/19/14	2/19/14	2/19/14	2/19/20	2/19/14	2/19/14	2/19/14	2/19/14	2/19/14	2/19/14	2/19/14	2/19/14	2/19/14	2/19/14	5/7/14	5/7/14	5/7/14	5/7/14
EBI					EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI
Analyte	Method	Units	Method 1 S-1/GW- 2 Standards	Method 1 S-1/GW- 3 Standards																		
Volatile Organic Compounds (VOCs)																						
Acetone ⁴	SW 8260B	mg/kg	50	400	0.026	0.0279	0.0247	<0.37	<0.0094	0.03	0.031	<0.820	<0.490	<0.570	0.0289	<0.370	0.0382	<0.460	<0.10	<0.14	<0.062	<0.13
Benzene ⁴			40	40	<0.00039	0.00072	0.00054	<0.019	<0.00047	0.001	0.0019	<0.041	<0.024	<0.028	0.00045	<0.018	0.0056	0.0308	<0.0021	<0.0027	<0.0012	<0.0025
Butylbenzene, n-			NS	NS	<0.0039	<0.0039	<0.0044	<0.190	<0.0047	<0.0039	<0.0044	<0.410	<0.240	<0.280	<0.0044	<0.180	<0.0051	<0.230	<0.0021	<0.0027	<0.0012	<0.0025
Carbon disulfide			NS	NS	<0.0039	<0.0039	<0.0044	<0.190	<0.0047	<0.0039	<0.0044	<0.410	<0.240	<0.280	<0.0044	<0.180	<0.0051	<0.230	<0.021	<0.027	<0.012	<0.025
Carbon tetrachloride			5	30	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.0021	<0.0027	<0.0012	<0.0025
Chlorobenzene			3	100	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.0021	<0.0027	<0.0012	<0.0025
Chloroethane			NS	NS	<0.0039	<0.0039	<0.0044	<0.190	<0.0047	<0.0039	<0.0044	<0.410	<0.240	<0.280	<0.0044	<0.180	<0.0051	<0.230	<0.010	<0.014	<0.0062	<0.013
Chloroform			0.2	500	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.0042	<0.0055	<0.0025	<0.0050
Dichlorobenzene, 1,2-			100	300	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.0021	<0.0027	<0.0012	<0.0025
Dichlorobenzene, 1,3-			100	100	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.0021	<0.0027	<0.0012	<0.0025
Dichlorobenzene, 1,4-			1	80	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.0021	<0.0027	<0.0012	<0.0025
1,1-Dichloroethane			9	500	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.0021	<0.0027	<0.0012	<0.0025
1,1-Dichloroethene			40	500	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.0042	<0.0055	<0.0025	<0.0050
cis-1,2-Dichloroethene			0.1	100	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.0021	<0.0027	<0.0012	<0.0025
trans-1,2-Dichloroethene			1	500	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.0021	<0.0027	<0.0012	<0.0025
Methylene chloride ⁴			4	400	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.010	<0.014	<0.0062	<0.013
Naphthalene ⁴			20	500	<0.0039	<0.0039	<0.0044	5.91	<0.0047	<0.0039	<0.0044	2.98	<0.240	1.54	<0.0044	3.5	<0.0051	1.08	<0.010	<0.014	<0.0062	<0.013
Propylbenzene, n-			NS	NS	<0.0039	<0.0039	<0.0044	<0.190	<0.0047	<0.0039	<0.0044	<0.410	<0.240	<0.280	<0.0044	<0.180	<0.0051	<0.230	<0.0021	<0.0027	<0.0012	<0.0025
Tetrachloroethene (PCE)			10	30	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.0021	<0.0027	<0.0012	<0.0025
Toluene ⁴			500	500	<0.0039	<0.0039	<0.0044	<0.190	<0.0047	<0.0039	<0.0044	<0.410	<0.240	<0.280	<0.0044	<0.180	<0.0051	<0.230	<0.0021	<0.0027	<0.0012	<0.0025
Trichlorobenzene, 1,2,3-			NS	NS	<0.0039	<0.0039	<0.0044	<0.190	<0.0047	<0.0039	<0.0044	<0.410	<0.240	<0.280	<0.0044	<0.180	<0.0051	<0.230	<0.0042	<0.0055	<0.0025	<0.0050
Trichlorobenzene, 1,2,4-			6	700	<0.0039	<0.0039	<0.0044	<0.190	<0.0047	<0.0039	<0.0044	<0.410	<0.240	<0.280	<0.0044	<0.180	<0.0051	<0.230	<0.0042	<0.0055	<0.0025	<0.0050
1,1,1-Trichloroethane (TCA)			500	500	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.0021	<0.0027	<0.0012	<0.0025
Trichloroethene (TCE)			0.3	30	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.0021	<0.0027	<0.0012	<0.0025
Trimethylbenzene, 1,2,4-			NS	NS	<0.0039	<0.0039	<0.0044	<0.190	<0.0047	<0.0039	<0.0044	<0.410	<0.240	<0.280	<0.0044	<0.180	<0.0051	<0.230	<0.0021	<0.0027	<0.0012	<0.0025
Trimethylbenzene, 1,3,5-			NS	NS	<0.0039	<0.0039	<0.0044	<0.190	<0.0047	<0.0039	<0.0044	<0.410	<0.240	<0.280	<0.0044	<0.180	<0.0051	<0.230	<0.0021	<0.0027	<0.0012	<0.0025
Vinyl chloride			0.7	1	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	<0.110	<0.0018	<0.073	<0.0020	<0.093	<0.010	<0.014	<0.0062	<0.013
Total Xylenes			100	500	<0.0016	<0.0016	<0.0017	<0.075	<0.0019	<0.0015	<0.0018	<0.160	<0.097	0.204	<0.0018	<0.073	<0.0020	0.1	<0.0021	<0.0027	<0.0012	<0.0025
Total VOCs			NS	NS	0.026	0.02862	0.02524	5.91	ND	0.031	0.0329	2.98	ND	1.744	0.02935	3.5	0.0438	1.2108	ND	ND	ND	ND
Other																						
Solids, Percent	1603M	%			89.2	91	85	86.7	90.3	87.9	88	86.3	89.6	87.6	85.9	89.1	88.6	87	89.7	90.2	93.5	87.7
Total Organic Carbon	9060M	mg/kg			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

- General Notes:**
- Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - "<" = The analyte was not detected at a concentration above the specified reporting limit.
 - mg/kg = milligrams per kilogram.
 - Analyte is not associated with the release of chlorinated VOCs at the Site, and is therefore not a compound of potential concern (COPC). Refer to Section 4.5 of this Permanent Solution Statement.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
- B The reported result is attributed to sampling or laboratory contamination.

Table 1. Chemical Testing Results - Subsurface Soil
Partial Permanent Solution Statement
90-102 Washington Street
Somerville, Massachusetts

Location Name: Sample Name: Sample Depth (ft): Sample Date: Collected By:					EB-503		EB-504		EB-505		EB-506		EB-507		EB-508	
					EB-503(0-2')	EB-503(2-4')	EB-504(0-2')	EB-504(2-4')	EB-505(0-2')	EB-505(2-4')	EB-506(0-2')	EB-506(2-4')	EB-507(0-2')	EB-507(2-4')	EB-508(0-2')	EB-508(2-4')
					0 to 2	2 to 4	0 to 2	2 to 4	0 to 2	2 to 4	0 to 2	2 to 4	0 to 2	2 to 4	0 to 2	2 to 4
					5/7/14	5/7/14	5/7/14	5/7/14	5/7/14	5/7/14	5/7/14	5/7/14	5/7/14	5/7/14	5/7/14	5/7/14
					EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI	EBI
Analyte	Method	Units	Method 1 S-1/GW- 2 Standards	Method 1 S-1/GW- 3 Standards												
Volatile Organic Compounds (VOCs)	SW 8260B	mg/kg														
Acetone ⁴			50	400	<0.12	<0.098	<0.085	<4.3	<5.4	<0.092	<0.11	<0.097	<0.12	<0.16	<0.078	<0.12
Benzene ⁴			40	40	<0.0024	<0.0020	<0.0017	<0.086	0.11	<0.0018	<0.0021	<0.0019	<0.0025	<0.0031	<0.0016	<0.0024
Butylbenzene, n-			NS	NS	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	<0.0031	<0.0016	<0.0024
Carbon disulfide			NS	NS	<0.024	<0.020	<0.017	<0.86	<1.1	<0.018	<0.021	<0.019	<0.025	<0.031	<0.016	<0.024
Carbon tetrachloride			5	30	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	<0.0031	<0.0016	<0.0024
Chlorobenzene			3	100	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	<0.0031	<0.0016	<0.0024
Chloroethane			NS	NS	<0.012	<0.0098	<0.0085	<0.17	<0.22	<0.0092	<0.011	<0.0097	<0.012	<0.016	<0.0078	<0.012
Chloroform			0.2	500	<0.0048	<0.0039	<0.0034	<0.17	<0.22	<0.0037	<0.0043	<0.0039	<0.0049	<0.0063	<0.0031	<0.0047
Dichlorobenzene, 1,2-			100	300	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	<0.0031	<0.0016	<0.0024
Dichlorobenzene, 1,3-			100	100	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	<0.0031	<0.0016	<0.0024
Dichlorobenzene, 1,4-			1	80	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	0.0033	<0.0025	<0.0031	<0.0016	<0.0024
1,1-Dichloroethane			9	500	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	<0.0031	<0.0016	<0.0024
1,1-Dichloroethene			40	500	<0.0048	<0.0039	<0.0034	<0.086	<0.11	<0.0037	<0.0043	<0.0039	<0.0049	<0.0063	<0.0031	<0.0047
cis-1,2-Dichloroethene			0.1	100	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	<0.0031	<0.0016	<0.0024
trans-1,2-Dichloroethene			1	500	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	<0.0031	<0.0016	<0.0024
Methylene chloride ⁴			4	400	<0.012	<0.0098	<0.0085	<0.43	<0.54	<0.0092	<0.011	<0.0097	<0.012	<0.016	<0.0078	<0.012
Naphthalene ⁴			20	500	<0.012	<0.0098	<0.0085	<0.17	3.1	0.018	<0.011	<0.0097	<0.012	<0.016	<0.0078	<0.012
Propylbenzene, n-			NS	NS	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	<0.0031	<0.0016	<0.0024
Tetrachloroethene (PCE)			10	30	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	<0.0031	<0.0016	<0.0024
Toluene ⁴			500	500	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	0.0046	<0.0016	<0.0024
Trichlorobenzene, 1,2,3-			NS	NS	<0.0048	<0.0039	<0.0034	<0.34	<0.43	<0.0037	<0.0043	<0.0039	<0.0049	<0.0063	<0.0031	<0.0047
Trichlorobenzene, 1,2,4-			6	700	<0.0048	<0.0039	<0.0034	<0.086	<0.11	<0.0037	<0.0043	<0.0039	<0.0049	<0.0063	<0.0031	<0.0047
1,1,1-Trichloroethane (TCA)			500	500	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	<0.0031	<0.0016	<0.0024
Trichloroethene (TCE)			0.3	30	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	<0.0031	<0.0016	<0.0024
Trimethylbenzene, 1,2,4-			NS	NS	<0.0024	<0.0020	<0.0017	<0.086	0.18	<0.0018	<0.0021	<0.0019	<0.0025	0.015	<0.0016	<0.0024
Trimethylbenzene, 1,3,5-			NS	NS	<0.0024	<0.0020	<0.0017	<0.086	<0.11	<0.0018	<0.0021	<0.0019	<0.0025	0.0077	<0.0016	<0.0024
Vinyl chloride			0.7	1	<0.012	<0.0098	<0.0085	<0.17	<0.22	<0.0092	<0.011	<0.0097	<0.012	<0.016	<0.0078	<0.012
Total Xylenes			100	500	<0.0024	<0.0020	<0.0017	<0.086	<0.22	<0.0018	<0.0021	<0.0019	<0.0025	0.029	<0.0016	<0.0024
Total VOCs			NS	NS	ND	ND	ND	ND	3.39	0.018	ND	0.0033	ND	0.0563	ND	ND
Other																
Solids, Percent	1603M	%			92.6	90.1	90	90.1	93.7	89.6	90.7	94.7	85.4	82.3	92.6	84.3
Total Organic Carbon	9060M	mg/kg			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

General Notes:

- Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
- "<" = The analyte was not detected at a concentration above the specified reporting limit.
- mg/kg = milligrams per kilogram.
- Analyte is not associated with the release of chlorinated VOCs at the Site, and is therefore not a compound of potential concern (COPC). Refer to Section 4.5 of this Permanent Solution Statement.

Qualifying Notes:

- J The reported result is below the laboratory reporting limit and is estimated.
B The reported result is attributed to sampling or laboratory contamination.

Table 2. Chemical Testing Results - Groundwater
Partial Permanent Solution Statement
90-102 Washington Street
Somerville, Massachusetts

Sample Location:			MW117D																								MW117S				
Sample Name: Well Screen Interval (ft bgs): Sample Date: Collected By:			MW117D 60 to 70 7/19/07 GEI	MW117D 60 to 70 10/11/07 GEI	MW117D 60 to 70 1/15/08 GEI	MW117D 60 to 70 4/16/08 GEI	MW117D 60 to 70 7/16/08 GEI	MW117D 60 to 70 10/21/08 GEI	MW117D 60 to 70 1/13/09 GEI	MW117D 60 to 70 4/14/09 GEI	MW117D 60 to 70 7/15/09 GEI	MW117D 60 to 70 10/14/09 GEI	MW117D 60 to 70 4/13/10 GEI	MW117D 60 to 70 4/20/11 GEI	MW117D 60 to 70 4/16/12 GEI	MW117D 60 to 70 4/24/13 GEI	MW117D 60 to 70 5/1/14 GEI	MW117D 60 to 70 4/2/15 GEI	MW117D 60 to 70 4/28/16 GEI	MW117D 60 to 70 4/17/17 GEI	MW117D 60 to 70 4/3/18 GEI	MW117D 60 to 70 4/15/19 GEI	MW117D 60 to 70 4/16/20 GEI	MW117D 60 to 70 4/13/21 GEI	MW117D 60 to 70 4/12/22 GEI	MW117S 5 to 20 7/18/07 GEI	MW117S 5 to 20 10/15/07 GEI	MW117S 5 to 20 1/11/08 GEI	MW117S 5 to 20 4/16/08 GEI	MW117S 5 to 20 7/16/08 GEI	
	Method 1 GW-2 Standards	Method 1 GW-3 Standards																													
Volatile Organic Compounds (VOCs)																															
Acetone	50,000	50,000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	<10	<10	<10	<5.0	<5.0	5.8	NT	< 5.0	< 5.0	< 5.0	< 5.0	
Benzene	1,000	10,000	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	NT	< 0.50	< 0.50	< 0.50	< 0.50	
Bromodichloromethane	6	50,000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	
n-Butylbenzene	NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	
Carbon disulfide	NS	NS	NT	< 5.0	< 5.0	6.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	
Chlorobenzene	200	1,000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroethane	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Chloroform	50	20,000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.0	0.43 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	2,000	20,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethylene	80	30,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
cis-1,2-Dichloroethylene	20	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
trans-1,2-Dichloroethylene	80	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropyl benzene	NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	
4-Isopropyltoluene	NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	
Methyl tert-butyl ether	50,000	50,000	NT	1.6	2.3	1.5	< 1.0	1.5	0.96 J	0.86 J	1.3	1.5	1.2	< 1.0	< 1.0	6.8	< 1.0	< 1.0	0.66 J	1.3	< 1.0	1.4	2	2	< 2	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	700	20000	NT	< 5.0	4.9 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	
n-Propylbenzene	NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	
Tetrachloroethylene (PCE)	50	30,000	0.54 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	50,000	40000	NT	0.98 J	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethylene (TCE)	5	5,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Vinyl chloride	2	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

- General Notes:**
- Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
 - ft bgs = feet below ground surface.
 - µg/l = micrograms per liter.
 - "< " = The analyte was not detected at a concentration above the specified reporting limit.
 - Based on the depth from which the groundwater samples were collected from each monitoring well, the applicable Method 1 Standards for comparison to MW117S, MW118S, EB-1 and EB-4 are the GW-2 (assuming a future building) and GW-3 Standards, and the applicable Method 1 Standard for comparison to MW117T, MW118T, MW117D, and MW118D is the GW-3 Standard.
 - FD = Field Duplicate Sample.
 - NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

Table 2. Chemical Testing Results - Groundwater
Partial Permanent Solution Statement
90-102 Washington Street
Somerville, Massachusetts

Sample Location: Sample Name: Well Screen Interval (ft bgs): Sample Date: Collected By:			MW117S (cont.)																	MW117T										
			MW117S 5 to 20 10/21/08 GEI	MW117S 5 to 20 1/13/09 GEI	MW117S 5 to 20 4/14/09 GEI	MW117S 5 to 20 7/15/09 GEI	MW117S 5 to 20 10/14/09 GEI	MW117S 5 to 20 4/13/10 GEI	MW117S 5 to 20 4/21/11 GEI	MW117S 5 to 20 4/16/12 GEI	MW117S 5 to 20 4/24/13 GEI	MW117S 5 to 20 5/1/14 GEI	MW117S 5 to 20 4/2/15 GEI	MW117S 5 to 20 4/27/16 GEI	MW117S 5 to 20 4/17/17 GEI	MW117S 5 to 20 4/3/18 GEI	MW117S 5 to 20 4/15/19 GEI	MW117S 5 to 20 4/16/20 GEI	MW117S 5 to 20 4/13/21 GEI	MW117S 5 to 20 4/12/22 GEI	MW117T 35 to 45 7/19/07 GEI	MW117T 35 to 45 10/11/07 GEI	MW117T 35 to 45 1/15/08 GEI	MW117T 35 to 45 4/16/08 GEI	MW117T 35 to 45 7/16/08 GEI	MW117T 35 to 45 10/21/08 GEI	MW117T 35 to 45 1/13/09 GEI	MW117T 35 to 45 4/14/09 GEI	MW117T 35 to 45 7/15/09 GEI	MW117T 35 to 45 10/16/09 GEI
Analyte		Method 1 GW-2 Standards	Method 1 GW-3 Standards																											
Volatile Organic Compounds (VOCs)																														
Acetone	50,000	50,000	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	<10	<10	<0.10	<5.0	<5.0	<5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
Benzene	1,000	10,000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	6	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	200	1,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform	50	20,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	2,000	20,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene	80	30,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene	20	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene	80	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropyl benzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether	50,000	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K-	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	NT	3.4	9.8	4.8	1.7	2.8	1.9	4.1	1.5	7.0
Naphthalene	700	20000	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0
n-Propylbenzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethylene (PCE)	50	30,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	50,000	40000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)	5	5,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	2	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

- General Notes:**
- Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
 - ft bgs = feet below ground surface.
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 - "< " = The analyte was not detected at a concentration above the specified reporting limit.
 - Based on the depth from which the groundwater samples were collected from each monitoring well, the applicable Method 1 Standards for comparison to MW117S, MW118S, EB-1 and EB-4 are the GW-2 (assuming a future building) and GW-3 Standards, and the applicable Method 1 Standard for comparison to MW117T, MW118T, MW117D, and MW118D is the GW-3 Standard.
 - FD = Field Duplicate Sample.
 - NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

Table 2. Chemical Testing Results - Groundwater
Partial Permanent Solution Statement
90-102 Washington Street
Somerville, Massachusetts

Sample Location: Sample Name: Well Screen Interval (ft bgs): Sample Date: Collected By:			MW117T (cont.)													MW118D														
			MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D			
			35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80		
			4/13/10	4/21/11	4/16/12	4/23/13	5/1/14	4/2/15	4/27/16	4/17/17	4/3/18	4/15/19	4/16/20	4/13/21	4/12/22	7/20/07	8/30/07	10/11/07	1/16/08	4/16/08	7/16/08	10/21/08	1/14/09	4/14/09	7/15/09	10/14/09	10/14/09	4/12/10	4/20/11	4/16/12
Analyte	Method 1 GW-2 Standards	Method 1 GW-3 Standards																												
Volatile Organic Compounds (VOCs)																														
Acetone	50,000	50,000	< 5.0	< 5.0	< 5.0 K-	< 10	< 10	< 10	< 10	<10	<10	<10	<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Benzene	1,000	10,000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	NT	NT	< 0.50	0.24 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bromodichloromethane	6	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
n-Butylbenzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Carbon disulfide	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.6 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Chlorobenzene	200	1,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroethane	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Chloroform	50	20,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	2,000	20,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	20.3	21.4	31.2	31.7	33.3	34.3	22.8	26.0	22.8	28.7	41.2	39.5	40.0	43.5	36.9
1,1-Dichloroethylene	80	30,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
cis-1,2-Dichloroethylene	20	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.55 J	< 1.0	< 1.0	< 1.0	< 1.0	0.96 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.3	1.2
trans-1,2-Dichloroethylene	80	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropyl benzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
4-Isopropyltoluene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.93 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Methyl tert-butyl ether	50,000	50,000	1.6	1.4	< 1.0	< 1.0 K-	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NT	NT	< 1.0	0.40 J	< 1.0	0.40 J	< 1.0	< 1.0	0.38 J	0.39 J	0.55 J	0.51 J	< 1.0	0.83 J	< 1.0
Naphthalene	700	20000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	
n-Propylbenzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Tetrachloroethylene (PCE)	50	30,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	7.0	8.4	8.2	6.1	5.7	7.1	2.1	1.2	< 1.0	2.3	0.93 J	1.1	1.5	4.6	8.4
Toluene	50,000	40000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	0.62 J	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethylene (TCE)	5	5,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	3.9	1.8	0.94 J	1.0	1.9	< 1.0	1.9	1.5	3.0	6.1	6.3	10.0	11.9	7.4
Vinyl chloride	2	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
 2. ft bgs = feet below ground surface.
 3. µg/l = micrograms per liter.
 4. "<" = The analyte was not detected at a concentration above the specified reporting limit.
 5. Based on the depth from which the groundwater samples were collected from each monitoring well, the applicable Method 1 Standards for comparison to MW117S, MW118S, EB-1 and EB-4 are the GW-2 (assuming a future building) and GW-3 Standards, and the applicable Method 1 Standard for comparison to MW117T, MW118T, MW117D, and MW118D is the GW-3 Standard.
 6. FD = Field Duplicate Sample.
 7. NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

Table 2. Chemical Testing Results - Groundwater
Partial Permanent Solution Statement
90-102 Washington Street
Somerville, Massachusetts

Sample Location: Sample Name: Well Screen Interval (ft bgs): Sample Date: Collected By:			MW118D (cont.)																				MW118S						
			MW118D 70 to 80 11/12/12 GEI	MW118D 70 to 80 4/24/13 GEI	MW118D 70 to 80 11/18/13 GEI	MW118D 70 to 80 5/1/14 GEI	MW118D 70 to 80 11/18/14 GEI	MW118D 70 to 80 4/2/15 GEI	MW118D 70 to 80 11/19/15 GEI	MW118D 70 to 80 4/28/16 GEI	MW118D 70 to 80 11/21/16 GEI	MW118D 70 to 80 4/17/17 GEI	MW118D 70 to 80 11/8/17 GEI	MW118D 70 to 80 4/3/18 GEI	MW118D 70 to 80 11/15/18 GEI	MW118D 70 to 80 4/15/19 GEI	MW118D 70 to 80 11/22/19 GEI	MW118D 70 to 80 4/16/20 GEI	MW118D 70 to 80 11/18/20 GEI	MW118D 70 to 80 4/13/21 GEI	MW118D 70 to 80 11/30/21 GEI	MW118D 70 to 80 4/12/22 GEI	MW118D 70 to 80 11/29/22 GEI	MW118S 3 to 14 7/20/07 GEI	MW118S 3 to 14 8/30/07 GEI	MW118S 3 to 14 10/11/07 GEI	MW118S 3 to 14 1/11/08 GEI	MW118S 3 to 14 4/16/08 GEI	MW118S 3 to 14 7/15/08 GEI
Analyte	Method 1 GW-2 Standards	Method 1 GW-3 Standards																											
Volatile Organic Compounds (VOCs)																													
Acetone	50,000	50,000	< 5.0 K-	< 10	< 10 K-	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 10	< 10	< 10	< 10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	1,000	10,000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	NT	NT	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	6	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0 J+
Chlorobenzene	200	1,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0	4.8	3.1	3.1	1.1	3.4	3.7	1.1	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform	50	20,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	2,000	20,000	41.4	38.5	39.1	40.6	47.9	46.6	39.3	43.9	37.7	34.8	27.4	21.9	20.0	18.6	33.9	44	27	25	22	30	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene	80	30,000	0.55 J	< 1.0	< 1.0	< 1.0	< 1.0	0.79 J K+	0.90 J	1.6	1.8	0.85 J	0.78 J	< 1.0	< 1.0	< 1.0	< 1.0	2.6	2.4	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene	20	50,000	1.6	2.7	5.1	6.5	6.8	6.9	5.6	27.8	8.6	7.9	5	4.3	3.7	3.2	57.3	53	10	6	5	4	4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene	80	50,000	< 1.0	< 1.0	0.74 J	0.68 J	< 1.0 K+	0.62 J	2.2	2.9	0.81 J	0.55 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropyl benzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether	50,000	50,000	0.63 J	< 1.0	0.46 J	< 1.0	1.9 K+	0.69 J	0.89 J	< 1.0	1.3	0.81 J	< 1.0	1.1	1.3	1.3	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	700	20000	1.1 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethylene (PCE)	50	30,000	4.3	5.8	1.3	< 1.0	2.2	5.1	39.7	49.8	6.5	5.8	2.7	2.7	1.8	1.6	40.9	38	27	2.2	1.1	< 1.0	1.1	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	50,000	40000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)	5	5,000	11.5	7.7	7.3	4.3	6.9	4.6	17.6	14.4	3.3	2.6	1.7	1.5	1.5	1.1	11.4	11	7.9	2.7	1.7	< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	2	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 G K-	< 1.0	1.9	20.2	3.1	0.93 J	2.4	1.9	< 1.0	1.1	11.8	19	3.8	3.3	1.9	< 1.0	2.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
 2. ft bgs = feet below ground surface.
 3. µg/l = micrograms per liter.
 4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
 5. Based on the depth from which the groundwater samples were collected from each monitoring well, the applicable Method 1 Standards for comparison to MW117S, MW118S, EB-1 and EB-4 are the GW-2 (assuming a future building) and GW-3 Standards, and the applicable Method 1 Standard for comparison to MW117T, MW118T, MW117D, and MW118D is the GW-3 Standard.
 6. FD = Field Duplicate Sample.
 7. NT = Not Tested.

Qualifying Notes:
J The reported result is below the laboratory reporting limit and is estimated.

Table 2. Chemical Testing Results - Groundwater
Partial Permanent Solution Statement
90-102 Washington Street
Somerville, Massachusetts

Sample Location:			MW118S (cont.)																MW118T									
			MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T		
Sample Name:			3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5		
Well Screen Interval (ft bgs):			10/21/08	1/14/09	4/15/09	7/15/09	10/14/09	4/12/10	4/20/11	4/24/13	5/1/14	4/2/15	4/28/16	4/17/17	4/3/18	4/15/19	4/16/20	4/13/21	4/12/22	7/20/07	8/30/07	10/11/07	1/15/08	4/16/08	7/15/08	10/21/08	1/14/09	4/14/09
Sample Date:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Collected By:																												
	Method 1 GW-2 Standards	Method 1 GW-3 Standards																										
Analyte																												
Volatile Organic Compounds (VOCs)																												
Acetone	50,000	50,000	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 10	< 10	< 10	< 10	<10	<10	<10	40	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Benzene	1,000	10,000	< 0.50	< 0.50	< 0.50 J+	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NT	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bromodichloromethane	6	50,000	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
n-Butylbenzene	NS	NS	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Carbon disulfide	NS	NS	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Chlorobenzene	200	1,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroethane	NS	NS	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Chloroform	50	20,000	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	2,000	20,000	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	35.4	34.4	44.2	42.3	42.0	41.9	37.0	33.4	
1,1-Dichloroethylene	80	30,000	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
cis-1,2-Dichloroethylene	20	50,000	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.45 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
trans-1,2-Dichloroethylene	80	50,000	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropyl benzene	NS	NS	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
4-Isopropyltoluene	NS	NS	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	21.9	< 5.0	2.9 J	6.0	< 5.0	10.3	<2.0	<2.0	<2.0	3.1	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Methyl tert-butyl ether	50,000	50,000	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	NT	NT	2.4	3.1	2.2	2.5	2.2	2	
Naphthalene	700	20000	< 5.0	< 5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
n-Propylbenzene	NS	NS	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Tetrachloroethylene (PCE)	50	30,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.0	3.8	2.2	2.9	2.7	2.4	2.1	2	
Toluene	50,000	40000	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethylene (TCE)	5	5,000	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	0.31 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Vinyl chloride	2	50,000	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

- General Notes:**
- Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
 - ft bgs = feet below ground surface.
 - µg/l = micrograms per liter.
 - "< " = The analyte was not detected at a concentration above the specified reporting limit.
 - Based on the depth from which the groundwater samples were collected from each monitoring well, the applicable Method 1 Standards for comparison to MW117S, MW118S, EB-1 and EB-4 are the GW-2 (assuming a future building) and GW-3 Standards, and the applicable Method 1 Standard for comparison to MW117T, MW118T, MW117D, and MW118D is the GW-3 Standard.
 - FD = Field Duplicate Sample.
 - NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

Table 2. Chemical Testing Results - Groundwater
Partial Permanent Solution Statement
90-102 Washington Street
Somerville, Massachusetts

Sample Location: Sample Name: Well Screen Interval (ft bgs): Sample Date: Collected By:			MW118T (cont.)															COBBLE-IR-1	EB-1	EB-4
			MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	COBBLE-IR-1	EB-1	EB-4
			39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	Unknown	Unknown	Unknown
			7/14/09	10/15/09	4/12/10	4/20/11	4/17/12	4/24/13	5/1/14	4/3/15	4/28/16	4/17/17	4/3/18	4/16/19	4/17/20	4/13/21	4/12/22	6/25/07	5/9/12	5/9/12
GEI			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	EBI	EBI
Analyte	Method 1 GW-2 Standards	Method 1 GW-3 Standards																		
Volatile Organic Compounds (VOCs)																				
Acetone	50,000	50,000	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 10	< 10	< 10	< 10	<10	<10	<10	<5.0	<5.0	<5.0	5.8	9.3	5.8
Benzene	1,000	10,000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	<0.50
Bromodichloromethane	6	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.32 J	<1.0	<1.0
n-Butylbenzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	< 5.0	<5.0	5.4
Carbon disulfide	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	<5.0	<5.0
Chlorobenzene	200	1,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	7.0
Chloroethane	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	< 2.0	<2.0	<2.0
Chloroform	50	20,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0	<1.0
1,1-Dichloroethane	2,000	20,000	40.0	53.3 J+	37.8	35.9	28.8	26.9	28.4	31.3	31.3	26.7	22.4	5.8	23	16	1.5	< 1.0	<1.0	<1.0
1,1-Dichloroethylene	80	30,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0
cis-1,2-Dichloroethylene	20	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0	0.55 J	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0
trans-1,2-Dichloroethylene	80	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0
Isopropyl benzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	< 5.0	<5.0	11.0
4-Isopropyltoluene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	<5.0	<5.0
Methyl tert-butyl ether	50,000	50,000	1.9	7.5	1.2	2.4	1.8	7.1	0.94 J	1.5	1.1	1.9	1.6	<1.0	2.1	<2.0	<2.0	< 1.0	<1.0	<1.0
Naphthalene	700	20000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	< 5.0	<5.0	<5.0
n-Propylbenzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	< 5.0	<5.0	17.9
Tetrachloroethylene (PCE)	50	30,000	1.7	2.8	1.6	2.1	2.1	1.5	1.0	1.3	2.0	0.90 J	<1.0	<1.0	1.4	1.1	<1.0	< 1.0	<1.0	<1.0
Toluene	50,000	40000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0
Trichloroethylene (TCE)	5	5,000	0.50 J	0.80 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	0.62 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0
Vinyl chloride	2	50,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K+	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
 2. ft bgs = feet below ground surface.
 3. µg/l = micrograms per liter.
 4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
 5. Based on the depth from which the groundwater samples were collected from each monitoring well, the applicable Method 1 Standards for comparison to MW117S, MW118S, EB-1 and EB-4 are the GW-2 (assuming a future building) and GW-3 Standards, and the applicable Method 1 Standard for comparison to MW117T, MW118T, MW117D, and MW118D is the GW-3 Standard.
 6. FD = Field Duplicate Sample.
 7. NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3. Exposure Point Concentrations- Soil
Partial Permanent Solution Statement
90-102 Washington Street
Somerville, Massachusetts

Sample Location:					B118D-S2
Analyte	Method	Units	Method 1 Standards		
			S-1/GW-2	S-1/GW-3	
Volatile Organic Compounds (VOCs) Tetrachloroethene (PCE)	SW 8260B	mg/kg	10	30	0.233

General Notes:

1. mg/kg = milligrams per kilogram.
2. The exposure point concentration is the maximum VOC concentration of Compounds of Potential Concern (COPCs) detected in soil.

Table 4. Exposure Point Concentrations- Groundwater
Partial Permanent Solution Statement
90-102 Washington Street
Somerville, Massachusetts

Sample Location: Well Screen Interval (ft bgs): Collected By:			MW117D 60 to 70 GEI	MW117S 5 to 20 GEI	MW117T 35 to 45 GEI	MW118D 70 to 80 GEI	MW118S 3 to 14 GEI	MW118T 39.5 to 49.5 GEI	COBBLE-JR-1 Unknown GEI	EB-1 Unknown EBI	EB-4 Unknown EBI
Analyte	Method 1 GW-2 Standards	Method 1 GW-3 Standards									
Volatile Organic Compounds (VOCs)											
Chloroform	50	20,000	2	1.3	ND	ND	ND	ND	5.6	<1.0	<1.0
1,1-Dichloroethane	2,000	20,000	ND	ND	ND	47.9	ND	44.2	< 1.0	<1.0	<1.0
1,1-Dichloroethylene	80	30,000	ND	ND	ND	2.6	ND	0.36 J	< 1.0	<1.0	<1.0
cis-1,2-Dichloroethylene	20	50,000	ND	ND	ND	57.3	ND	0.55 J	< 1.0	<1.0	<1.0
Tetrachloroethylene (PCE)	50	30,000	0.54 J	ND	1.3	49.8	0.396 J	3.8	< 1.0	<1.0	<1.0
Trichloroethylene (TCE)	5	5,000	ND	ND	ND	17.6	ND	0.80 J	< 1.0	<1.0	<1.0
Vinyl chloride	2	50,000	ND	ND	ND	20.2	ND	2.3	< 1.0	<1.0	<1.0

General Notes:

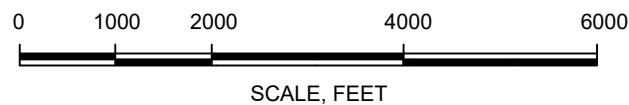
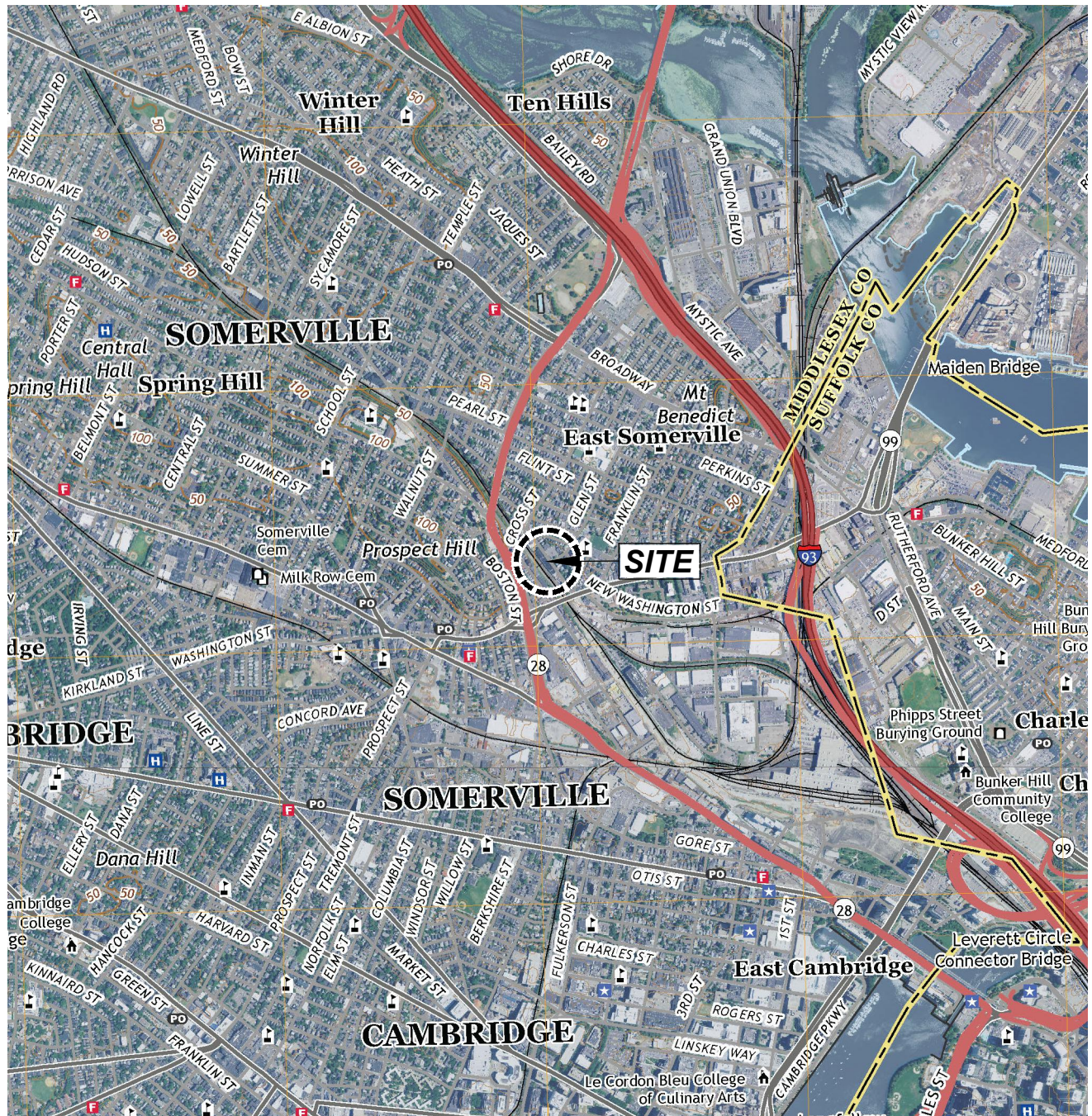
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
4. Based on the depth from which the groundwater samples were collected from each monitoring well, the applicable Method 1 Standards for comparison to MW117S, MW118S, EB-1 and EB-4 are the GW-2 (assuming a future building) and GW-3 Standards, and the applicable Method 1 Standard for comparison to MW117T, MW118T, MW117D, and MW118D is the GW-3 Standard.
5. FD = Field Duplicate Sample.
6. NT = Not Tested.

Qualifying Notes:

- J The reported result is below the laboratory reporting limit and is estimated.

MassDEP RTN 3-23246
Partial Permanent Solution Statement for 90-102
Washington Street, Somerville, Massachusetts
50 Tufts Street Site, Somerville, Massachusetts
UniFirst Corporation
March 30, 2023

Figures



This Image is from U.S.G.S. Topographic 7.5 Minute Series
 Boston North, MA Quadrangle, 2018.
 Datum is North American Vertical Datum of 1988 (NAVD88).
 Contour Interval is 10 Feet.



Partial Permanent Solution Statement
 50 Tufts Street
 Somerville, Massachusetts

UniFirst Corporation
 Wilmington, Massachusetts

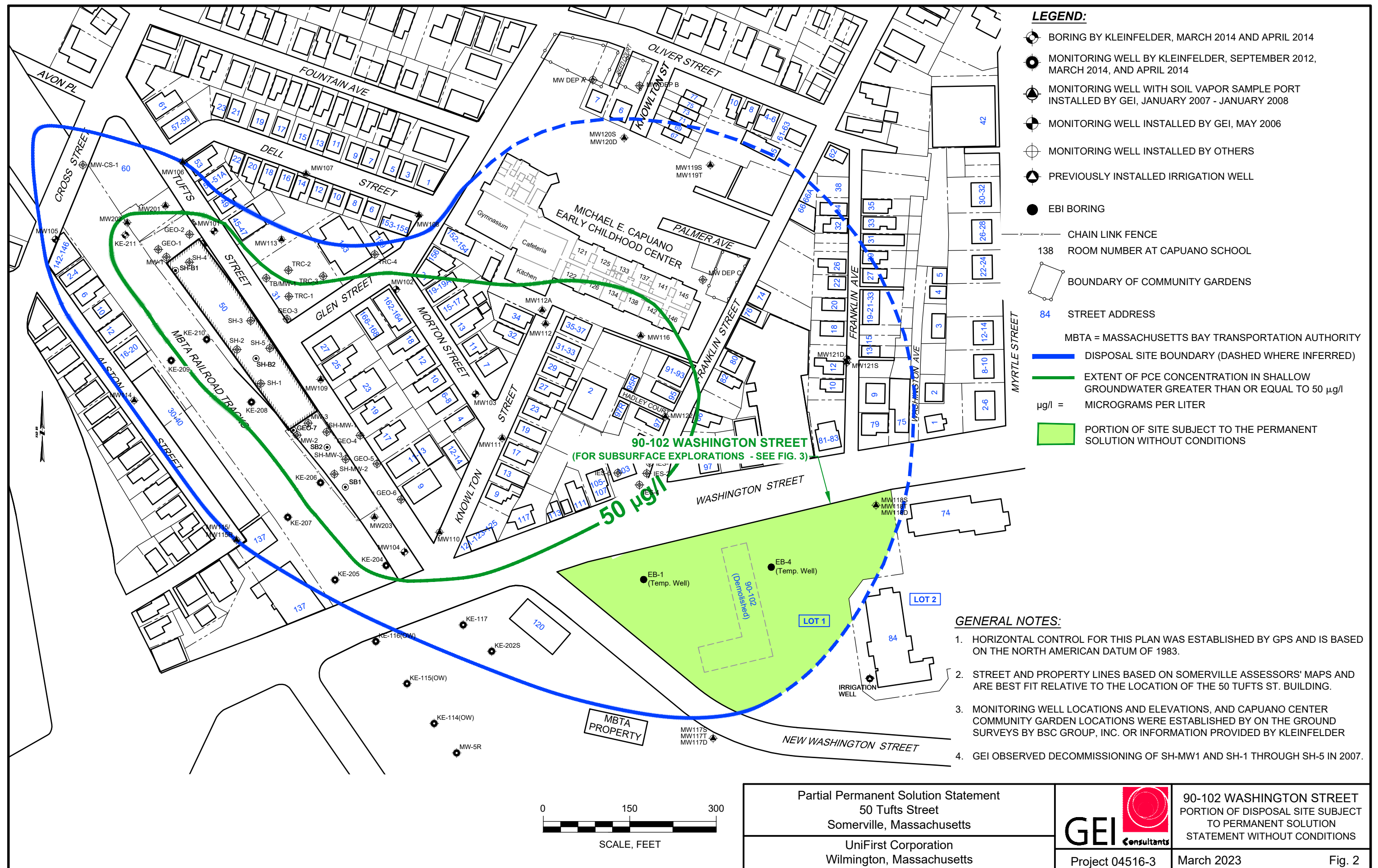


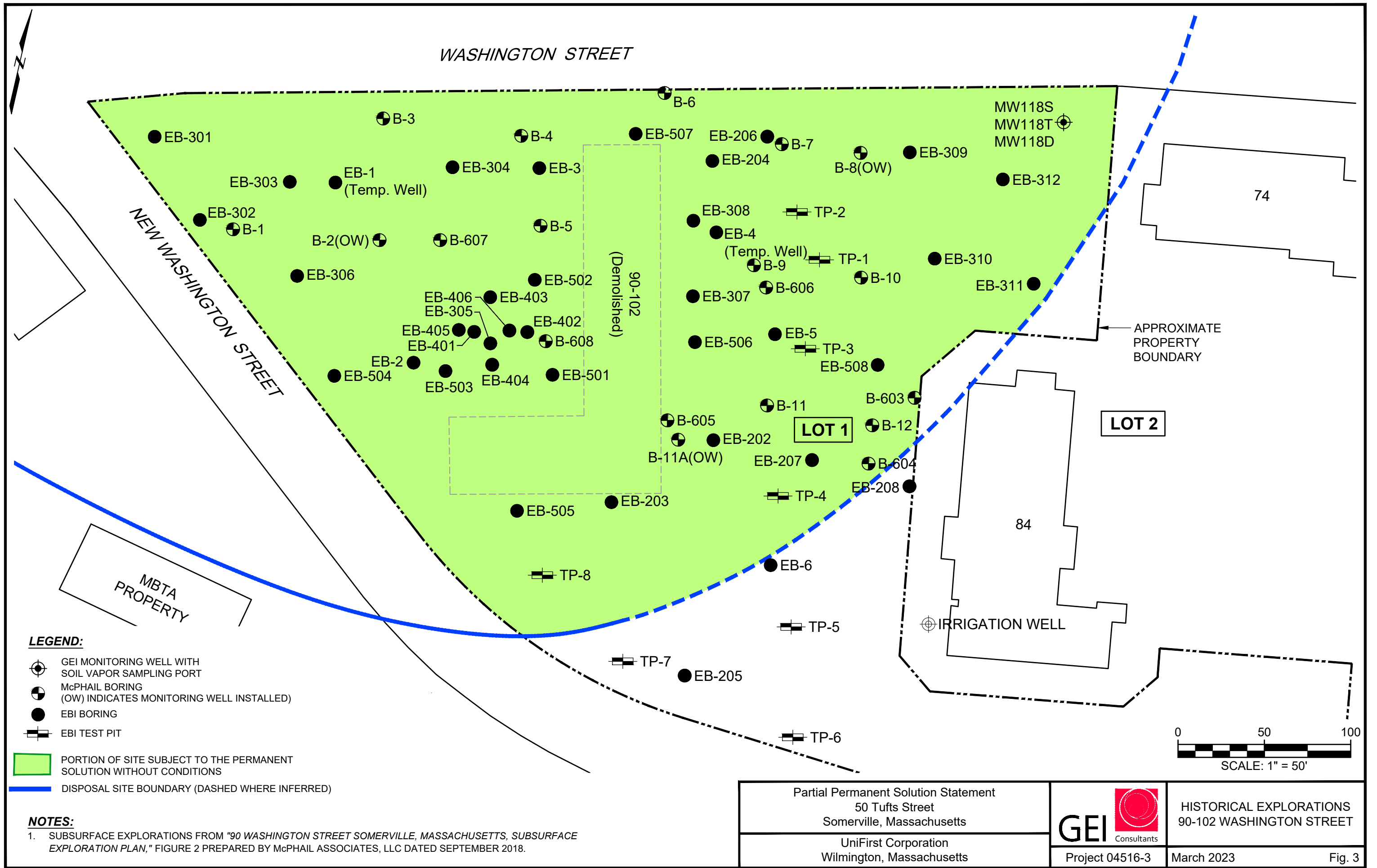
Project 045163

SITE LOCATION MAP

March 2023

Fig. 1





MassDEP RTN 3-23246
Partial Permanent Solution Statement for 90-102
Washington Street, Somerville, Massachusetts
50 Tufts Street Site, Somerville, Massachusetts
UniFirst Corporation
March 30, 2023

Appendix A

**Copy of MassDEP Form (BWSC-104) “Permanent and Temporary
Solution Statement”**



PERMANENT AND TEMPORARY SOLUTION STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

3 - 23246

For sites with multiple RTNs, enter the Primary RTN above.

A. SITE LOCATION:

1. Site Name/Location Aid: 50 TUFTS ST & PROP ACROSS THE ST
2. Street Address: 50 TUFTS ST
3. City/Town: SOMERVILLE 4. ZIP Code: 021454129
5. Coordinates: a. Latitude: N 42.38234 b. Longitude: W 71.08880
- ☒ 6. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category:
- ☐ a. Tier I ☐ b. Tier ID ☒ c. Tier II

B. THIS FORM IS BEING USED TO: (check all that apply)

1. List Submittal Date of the Permanent or Temporary Solution Statement, or RAO Statement (if previously submitted): _____ mm/dd/yyyy
- ☐ 2. Submit a **Permanent or Temporary Solution Statement**
- ☐ a. Check here if this Permanent or Temporary Solution Statement covers additional Release Tracking Numbers (RTNs). RTNs that have been previously linked to a Tier Classified Primary RTN do not need to be listed here.
- b. Provide the additional Release Tracking Number(s) covered by this Permanent or Temporary Solution Statement. - -
- ☐ 3. Submit a **Revised Permanent or Temporary Solution Statement** (or revised RAO Statement)
- ☐ a. Check here if this Revised Permanent or Temporary Solution Statement covers additional Release Tracking Numbers (RTNs), not listed on the Permanent or Temporary Solution Statement or previously submitted Revised Permanent or Temporary Solution Statements. RTNs that have been previously linked to a Tier Classified Primary RTN do not need to be listed here.
- b. Provide the additional Release Tracking Number(s) covered by this Permanent or Temporary Solution Statement. - -
- ☒ 4. Submit a **Permanent or Temporary Solution Partial Statement**
- Check above box, if any Response Actions remain to be taken to address conditions associated with this disposal site having the Primary RTN listed in the header section of this transmittal form. This Permanent or Temporary Solution Statement will record only a Permanent or Temporary Solution-Partial Statement for that RTN. A final Permanent or Temporary Solution Statement will need to be submitted that references all Permanent or Temporary Solution-Partial Statements and, if applicable, covers any remaining conditions not covered by the Permanent or Temporary Solution-Partial Statements.
- Also, specify if you are an Eligible Person or Tenant pursuant to M.G.L. c. 21 s.2, and have no further obligation to conduct response actions on the remaining portion(s) of the disposal site:
- ☐ a. Eligible Person ☐ b. Eligible Tenant
- ☐ 5. Submit a **Revised Permanent or Temporary Solution Partial Statement** (or revised RAO-Partial Statement)
- ☐ 6. Submit an optional **Phase I Completion Statement** supporting the Permanent or Temporary Solution Statement
- ☐ 7. Submit a **Periodic Review Opinion evaluating the status of a Temporary Solution**, as specified in 310 CMR 40.1051 (Section F is optional)
- ☐ 8. Submit a **Retraction** of a previously submitted **Permanent or Temporary Solution Statement** (or RAO Statement) (Sections E & F are not required)

(All sections of this transmittal form must be filled out unless otherwise noted above)



PERMANENT AND TEMPORARY SOLUTION STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

3 - 23246

For sites with multiple RTNs, enter the Primary RTN above.

C. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply; for volumes, list cumulative amounts)

- | | |
|---|---|
| ☒ 1. Assessment and/or Monitoring Only | ☐ 2. Temporary Covers or Caps |
| ☐ 3. Deployment of Absorbent or Containment Materials | ☐ 4. Treatment of Water Supplies |
| ☐ 5. Structure Venting System/HVAC Modification System | ☐ 6. Engineered Barrier |
| ☐ 7. Product or NAPL Recovery | ☐ 8. Fencing and Sign Posting |
| ☐ 9. Groundwater Treatment Systems | ☐ 10. Soil Vapor Extraction |
| ☐ 11. Remedial Additives | ☐ 12. Air Sparging |
| ☐ 13. Active Exposure Pathway Mitigation System | ☐ 14. Passive Exposure Pathway Mitigation System |
| ☐ 15. Monitored Natural Attenuation | ☐ 16. In-Situ Chemical Oxidation |
| ☐ 17. Removal of Contaminated Soils | |

- | | | | |
|--|---------------------------------------|---------------------------------|-------|
| ☐ a. Re-use, Recycling or Treatment | ☐ i. On Site | Estimated volume in cubic yards | _____ |
| | ☐ ii. Off Site | Estimated volume in cubic yards | _____ |

ia. Facility Name: _____ Town: _____ State: _____

iib. Facility Name: _____ Town: _____ State: _____

iii. Describe: _____

- ☐ b. Landfill _____

- | | | |
|-----------------------------------|---------------------------------|-------|
| ☐ i. Cover | Estimated volume in cubic yards | _____ |
|-----------------------------------|---------------------------------|-------|

Facility Name: _____ Town: _____ State: _____

- | | | |
|---------------------------------------|---------------------------------|-------|
| ☐ ii. Disposal | Estimated volume in cubic yards | _____ |
|---------------------------------------|---------------------------------|-------|

Facility Name: _____ Town: _____ State: _____

- ☐ 18. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount: _____

b. Facility Name: _____ Town: _____ State: _____

c. Facility Name: _____ Town: _____ State: _____

- ☐ 19. Removal of Other Contaminated Media:

a. Specify Type and Volume: _____

b. Facility Name: _____ Town: _____ State: _____

c. Facility Name: _____ Town: _____ State: _____



PERMANENT AND TEMPORARY SOLUTION STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

3 - 23246

For sites with multiple RTNs, enter the Primary RTN above.

C. DESCRIPTION OF RESPONSE ACTIONS (cont.): (check all that apply; for volumes, list cumulative amounts)

☐ 20. Other Response Actions:

Describe:

☐ 21. Use of Innovative Technologies:

Describe:

D. SITE USE:

1. Are the response actions that are the subject of this submittal associated with the *redevelopment, reuse* or the *major expansion of the current use* of property(ies) impacted by the presence of oil and/or hazardous materials?

☐ a. Yes ☒ b. No ☐ c. Don't know

2. Is the property a *vacant or under-utilized commercial or industrial* property ("a brownfield property")?

☐ a. Yes ☒ b. No ☐ c. Don't know

3. Will funds from a state or federal brownfield incentive program be used on one or more of the property(ies) within the disposal site?

☐ a. Yes ☒ b. No ☐ c. Don't know If Yes, identify program(s):

4. Has a Covenant Not to Sue been obtained or sought?

☐ a. Yes ☒ b. No ☐ c. Don't know

5. Check all applicable categories that apply to the person making this submittal:

☐ a. Redevelopment Agency or Authority

☐ b. Community Development Corporation

☐ c. Economic Development and Industrial Corporation

☐ d. Private Developer

☐ e. Fiduciary

☐ f. Secured Lender

☐ g. Municipality

☐ h. Potential Buyer (non-owner)

☒ i. Other, describe:

OTHER PRPS

This data will be used by MassDEP for information purposes only, and does not represent or create any legal commitment, obligation or liability on the part of the party or person providing this data to MassDEP.

E. PERMANENT OR TEMPORARY SOLUTION CATEGORY:

Specify the category of Solution that applies to the Disposal Site, or Site of the Threat of Release. Select either **1, 2, or 3.**

☒ **1. Permanent Solution with No Conditions** (check one)

☐ a. A threat of release has been eliminated.

☐ b. All contamination has been reduced to Natural Background levels.

☒ c. A condition of No Significant Risk exists or has been achieved with no Activity and Use Limitation or other limitations, assumptions, or conditions (310 CMR 40.1013).



PERMANENT AND TEMPORARY SOLUTION STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

3

-

23246

For sites with multiple RTNs, enter the Primary RTN above.

E. PERMANENT OR TEMPORARY SOLUTION CATEGORY (cont.):

☐ **2. Permanent Solution with Conditions** (check a and/or b):

☐ **a. An AUL has been implemented** pursuant to 310 CMR 1012(2) (check one)

☐ **i. Required** pursuant to 310 CMR 40.1012(2)

Is the AUL required because the Permanent Solution relies on an Active Exposure Pathway Mitigation Measure pursuant to CMR 310 40.1025?

☐ 1. Yes

☐ 2. No

☐ **ii. Optionally implemented** pursuant to 310 CMR 40.1012(3)

☐ **b. Limitations or conditions apply** pursuant to 310 CMR 40.1013 (check all that apply):

☐ **i. Gardening Best Management Practices (BMPs)** for non-commercial gardening in a residential setting

☐ **ii. Concentrations of Oil and Hazardous Material** consistent with Anthropogenic Background

☐ **iii. Residual contamination** in a Public or Railroad Right-of-Way

☐ **iv. Groundwater contamination** would exceed GW-2 Standards except for the absence of an occupied building or structure

☐ **3. Temporary Solution** (check a or b /and c)

☐ **a. Response actions to achieve a Permanent Solution are not currently feasible**

☐ **b. Response actions to achieve a Permanent Solution are feasible** and are being continued toward a Permanent Solution

☐ **c. Does the Temporary Solution** rely on an Active Exposure Pathway Mitigation Measure pursuant to 310 CMR 40.1026?

☐ i. Yes

☐ ii. No

F. PERMANENT AND TEMPORARY SOLUTION INFORMATION:

1. Specify the Risk Characterization Method(s) used to achieve the Permanent or Temporary Solution, described above:

☒ **a. Method 1**

☐ **b. Method 2**

☐ **c. Method 3**

☐ **d. Method Not Applicable**-Contamination reduced to or consistent with background, or Threat of Release abated

2. Specify all Soil Category(ies) applicable. More than one Soil Category may apply at a Site. Be sure to check off all **APPLICABLE** categories:

☐ **a. S-1/GW-1**

☐ **d. S-2/GW-1**

☐ **g. S-3/GW-1**

☐ **j. Not Applicable**

☐ **b. S-1/GW-2**

☐ **e. S-2/GW-2**

☐ **h. S-3/GW-2**

☐ **c. S-1/GW-3**

☐ **f. S-2/GW-3**

☒ **i. S-3/GW-3**

3. Specify all Groundwater Category(ies) impacted. A site may impact more than one Groundwater Category. Be sure to check off all **IMPACTED** categories:

☐ **a. GW-1**

☐ **b. GW-2**

☒ **c. GW-3**

☐ **d. No Groundwater Impacted**



PERMANENT AND TEMPORARY SOLUTION STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

3

-

23246

For sites with multiple RTNs, enter the Primary RTN above.

F. PERMANENT AND TEMPORARY SOLUTION INFORMATION (cont.):

- ☐ 4. Check here if the risk assessment includes any changes to the groundwater category pursuant to 310 CMR 40.0932(5)(a) through (e). Check all conditions that apply:
- ☐ a. An Interim Wellhead Protection Area does not apply based on a hydrogeologic evaluation (310 CMR 40.0932(5)(a))
 - ☐ b. Groundwater was determined not to be in a Potentially Productive Aquifer or is not feasible to be developed as a drinking water supply (310 CMR 40.0932(5)(b))
 - ☐ c. A Non-Potential Drinking Water Source Area determination was made (310 CMR 40.0932(5)(c))
 - ☐ d. Existing private wells were permanently closed (310 CMR 40.0932(5)(d))
 - ☐ e. Groundwater is located within a Zone A, but is not hydrogeologically connected to a drinking water supply (310 CMR 40.0932(5)(e))
- ☐ 5. Check here if the Permanent or Temporary Solution supports a finding of No Significant Risk for petroleum in a GW-1 area pursuant to 310 CMR 40.0924(2)(b)3.
6. Specify whether remediation was conducted:
- ☐ a. Check here if soil remediation was conducted.
 - ☐ b. Check here if groundwater remediation was conducted.
 - ☐ c. Check here if other remediation was conducted.
Specify: _____
7. Specify whether the analytical data used to support the Permanent or Temporary Solution used the Compendium of Analytical Methods (CAM):
- ☒ a. CAM used to support all analytical data.
 - ☐ b. CAM used to support some of the analytical data.
 - ☐ c. CAM not used.
- ☒ 8. Check here to indicate that the Permanent or Temporary Solution Statement includes a Data Usability Assessment and Data Representativeness Evaluation pursuant to 310 CMR 40.1056.
9. Estimate the number of acres this Permanent or Temporary Solution Statement applies to: 2.25

PERMANENT AND TEMPORARY SOLUTION STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

3	-	23246
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For sites with multiple RTNs, enter the Primary RTN above.

G. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B indicates that either a **Permanent or Temporary Solution Statement, Phase I Completion Statement and/or Periodic Review Opinion** is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP#: 9719

2. First Name: IILEEN S 3. Last Name: GLADSTONE

4. Telephone: 7817214012 5. Ext.: _____ 6. Email: igladstone@geiconsultants.com

7. Signature: _____

8. Date: _____ 9. LSP Stamp:

mm/dd/yyyy



H. PERSON MAKING SUBMITTAL:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☒ c. change in the person undertaking response actions

2. Name of Organization: UNIFIRST CORPORATION

3. Contact First Name: CATHERINE 4. Last Name: MALAGRIDA

5. Street: 68 JONSPIN ROAD 6. Title: ENVIORNMENTAL COMPLIANCE MANAGER

7. City/Town: WILMINGTON 8. State: MA 9. ZIP Code: 018870000

10. Telephone: 9786588888 11. Ext.: 0587 12. Email: catherine_malagrida@unifirst.com



PERMANENT AND TEMPORARY SOLUTION STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

3 - 23246

For sites with multiple RTNs, enter the Primary RTN above.

I. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON MAKING SUBMITTAL:

☐ Check here to change relationship

☒ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☒ e. Other RP or PRP Specify: OTHER PRPS

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Making Submittal Specify Relationship: _____

J. REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1. Check here if the Permanent or Temporary Solution on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☐ 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of a Permanent or Temporary Solution Statement that relies on the public way/rail right-of-way exemption from the requirements of an AUL.

☒ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of a Permanent or Temporary Solution Statement with instructions on how to obtain a full copy of the report.

☒ 4. Check here to certify that documentation is attached specifying the location of the Site, or the location and boundaries of the Disposal Site subject to this Permanent or Temporary Solution Statement. If submitting a Permanent or Temporary Solution Statement for a PORTION of a Disposal Site, you must document the location and boundaries for both the portion subject to this submittal and, to the extent defined, the entire Disposal Site.

☒ 5. Check here to certify that, pursuant to 310 CMR 40.1406, notice was provided to the owner(s) of each property within the disposal site boundaries, or notice was not required because the disposal site boundaries are limited to property owned by the party conducting response actions. (check all that apply)

☒ a. Notice was provided prior to, or concurrent with the submittal of a Phase II Completion Statement to the Department.

☐ b. Notice was provided prior to, or concurrent with the submittal of this Permanent or Temporary Solution Statement to the Department.

☐ c. Notice not required. d. Total number of property owners notified, if applicable: 112

☐ 6. Check here if you are submitting one or more AULs. You must submit an AUL Transmittal Form (BWSC113) and a copy of each implemented AUL related to this Permanent Solution or Temporary Solution Statement. Specify the type of AUL(s) below: (required for Permanent Solution with Conditions Statements where an AUL is being implemented)

☐ a. Notice of Activity and Use Limitation

b. Number of Notices submitted: _____

☐ c. Grant of Environmental Restriction

d. Number of Grants submitted: _____

☐ 7. If a Permanent Solution Compliance Fee is required for any of the RTNs listed on this transmittal form, check here to certify that a Permanent Solution Compliance Fee was submitted to DEP, P. O. Box 4062, Boston, MA 02211.

☐ 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Address/Location Aid. Send corrections to bwsc.edep@state.ma.us.

☒ 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.



PERMANENT AND TEMPORARY SOLUTION STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

3 - 23246

For sites with multiple RTNs, enter the Primary RTN above.

K. CERTIFICATION OF PERSON MAKING SUBMITTAL:

1. I, _____, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

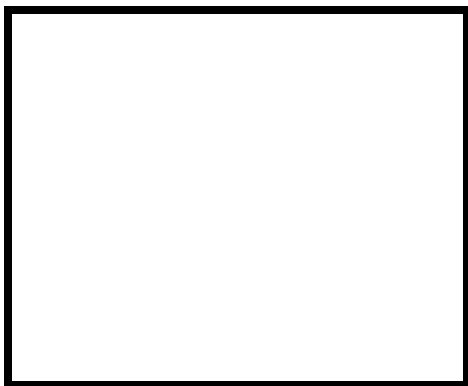
2. By: _____ 3. Title: _____
Signature
4. For: UNIFIRST CORPORATION 5. Date: _____
(Name of person or entity recorded in Section H) mm/dd/yyyy

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section H.

7. Street: _____
8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____
11. Telephone: _____ 12. Ext.: _____ 13. Email: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)



MassDEP RTN 3-23246
Partial Permanent Solution Statement for 90-102
Washington Street, Somerville, Massachusetts
50 Tufts Street Site, Somerville, Massachusetts
UniFirst Corporation
March 30, 2023

Appendix B

Public Notification Documentation

Consulting
Engineers and
Scientists

March 30, 2023
Project 04516-3

Mayor Katjana Ballantyne
Somerville City Hall
93 Highland Avenue
Somerville, MA 02143-1740

Dear Mayor Ballantyne:

**Re: Partial Permanent Solution Statement
90-102 Washington Street (Lot 1)
Somerville, Massachusetts
MassDEP RTN 3-23246**

On behalf of UniFirst Corporation (UniFirst) of Wilmington, Massachusetts, GEI Consultants, Inc. is notifying your office that a Partial Permanent Solution Statement has been prepared for the portion of the 50 Tufts Street disposal site (Site) identified as 90-102 Washington Street (Lot 1) in Somerville, Massachusetts (Property).

The conclusions of the Partial Permanent Solution Statement include the following:

- A condition of No Significant Risk (NSR) to human health, safety, public welfare, and the environment exists for all receptors with No Conditions at the Property, and no remedial actions are required.
- Source Elimination and Control: There are no unpermitted releases of oil or hazardous material (OHM) at the Site, and the sources of OHM at the Site are eliminated to the extent feasible and are controlled.
- Migration Control: The groundwater and soil vapor plumes at the Site are stable.
- Non-Aqueous Phase Liquid (NAPL): Visible NAPL has not been observed at the Site, and any dense non-aqueous phase liquid (DNAPL) that may be present is not migrating and exists in a stable configuration. The Phase III for the Site demonstrated that it is not feasible to eliminate DNAPL.
- An Activity and Use Limitation (AUL) is not required to maintain a condition of NSR at the Property.

The Partial Permanent Solution Statement has been submitted to the Massachusetts Department of Environmental Protection (MassDEP) Northeast Regional Office in Wilmington, Massachusetts for the above-referenced Site.

If you have any questions, please do not hesitate to contact me at 781-721-4012 or igladstone@geiconsultants.com.

Sincerely,

GEI CONSULTANTS, INC.



Chris Coner, CHMM
Project Manager



Heen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

MEF/CC/ISG:jam

c: Catherine Malagrida, UniFirst Corporation
Massachusetts Department of Environmental Protection

Consulting
Engineers and
Scientists

March 30, 2023
Project 04516-3

Ms. Nancy Bacci
Deputy Director, Health Department
City Hall Annex
50 Evergreen Avenue
Somerville, MA 02145-2819

Dear Ms. Bacci:

**Re: Partial Permanent Solution Statement
90-102 Washington Street (Lot 1)
Somerville, Massachusetts
MassDEP RTN 3-23246**

On behalf of UniFirst Corporation (UniFirst) of Wilmington, Massachusetts, GEI Consultants, Inc. is notifying your office that a Partial Permanent Solution Statement has been prepared for the portion of the 50 Tufts Street disposal site (Site) identified as 90-102 Washington Street (Lot 1) in Somerville, Massachusetts (Property).

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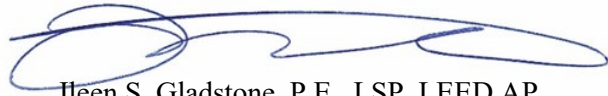
If you have any questions, please do not hesitate to contact me at 781-721-4012 or igladstone@geiconsultants.com.

Sincerely,

GEI CONSULTANTS, INC.



Chris Coner, CHMM
Project Manager



Helen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

MEF/CC/ISG:jam

c: Catherine Malagrida, UniFirst Corporation
Massachusetts Department of Environmental Protection

Appendix C

Registry of Deeds Subdivision Survey Plan

Register/Town of Middlesex
Southern District
Cambridge, Massachusetts
Plan No. 435 of 2013
Page 1 of 2
Date 12/27/2012

Attest
[Signature]
Register

FOR REGISTRY USE ONLY

ZONING CLASSIFICATION - B2 - BUSINESS B

NOTE: SEE SHEET C-3 OF "COBBLE HILL CENTER REDEVELOPMENT"
- DATED 10/18/2012 FOR ADDITIONAL ZONING SUMMARY

REQUIRED

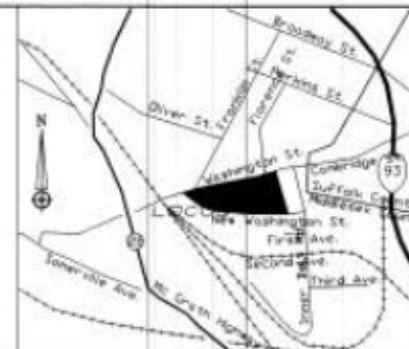
MINIMUM LOT SIZE (S.F.) = NONE
MINIMUM LOT FRONTAGE = NONE
MINIMUM FRONT YARD SETBACK = 15'
MINIMUM SIDE YARD SETBACK = NONE
MINIMUM REAR YARD SETBACK = 10' PLUS 2' FOR EACH STORY ABOVE THE GROUND FLOOR

LOT 1

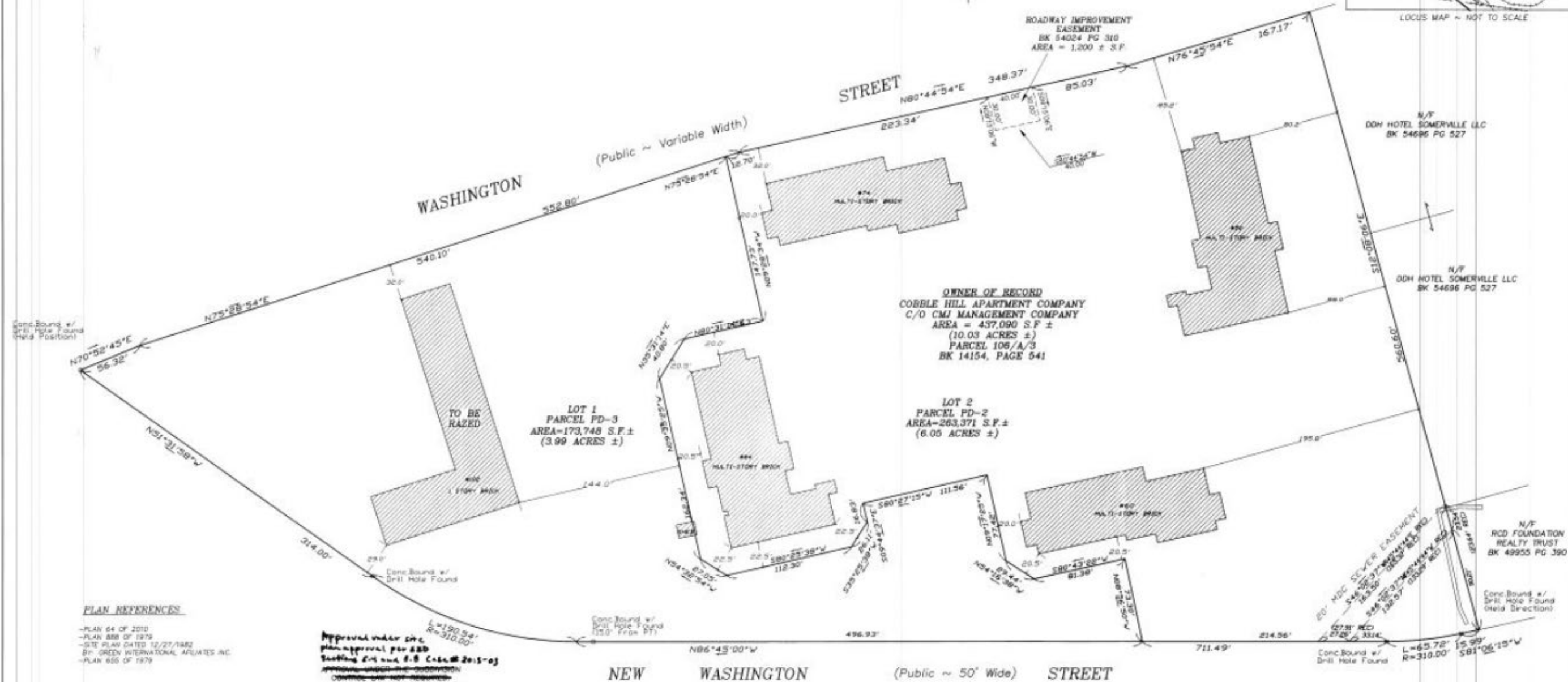
LOT SIZE (S.F.) = 173,748 S.F.
LOT FRONTAGE = 596.42'
MINIMUM FRONT YARD SETBACK = 32.0' - WASHINGTON STREET
39.0' - NEW WASHINGTON STREET
MINIMUM SIDE YARD SETBACK = N/A
MINIMUM REAR YARD SETBACK = N/A

LOT 2

LOT SIZE (S.F.) = 263,371 S.F.
LOT FRONTAGE = 528.24'
MINIMUM FRONT YARD SETBACK = 32.0' - WASHINGTON ST
39.0' - NEW WASHINGTON ST
MINIMUM SIDE YARD SETBACK = 30.2'
MINIMUM REAR YARD SETBACK = N/A



LOCUS MAP - NOT TO SCALE



PLAN REFERENCES

-PLAN 64 OF 2010
-PLAN 888 OF 1979
-SITE PLAN DATED 12/27/2012
BY: GREEN INTERNATIONAL AFFILIATES INC.
-PLAN 655 OF 1979

Approval under site
plan approval per 88B
Section 21A and 21B, Chapter 213A
of the Massachusetts General Laws
Chapter 213A, Section 21B
Subdivision Control Act
[Signatures]
DATE: _____



I certify that this plan has been prepared
in conformity with the rules and regulations of
the registers of deeds of the Commonwealth of
Massachusetts.
[Signature]
Registered Professional Land Surveyor

SUBDIVISION
"COBBLE HILL APARTMENTS"
#84 WASHINGTON STREET
SOMERVILLE, MASS.
MIDDLESEX COUNTY
JANUARY 31, 2013 SCALE 1"=40'
R.E. CAMERON & ASSOCIATES, INC.
LAND SURVEYORS-CIVIL ENGINEERS
681 WASHINGTON STREET, NORWOOD, MA
PH 781-769-1777 FAX 781-769-8644

